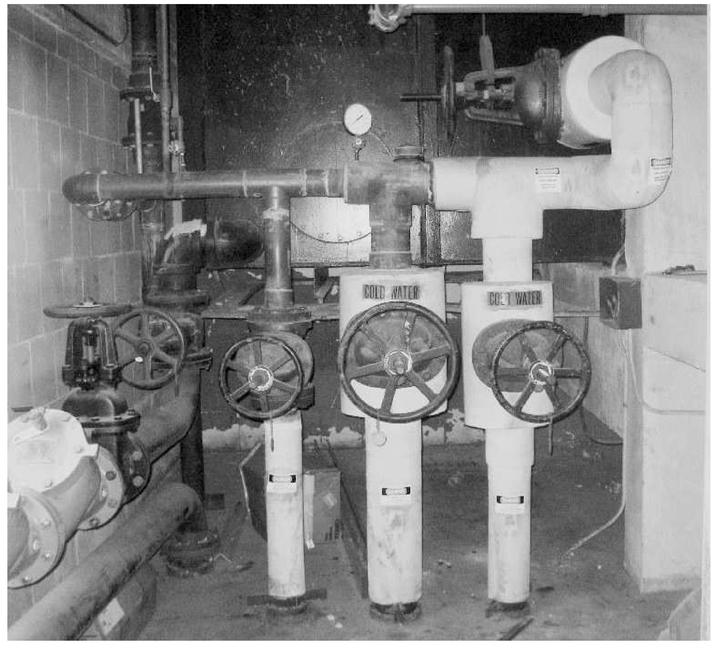
Replace Cold Water Valves
Building 1, Durham VAMC

508 Fulton Street
Durham, North Carolina

Architect:
Roughton Nickelson De Luca Architects, PA
Durham, North Carolina

PM&E Engineer:
Edmondson Engineers, PA
Durham, North Carolina

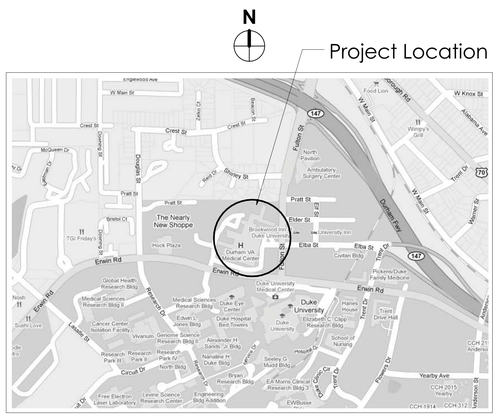
Asbestos Abatement Engineer:
S&ME, Inc.
Greensboro, North Carolina



Owner:
Department of Veterans Affairs
Durham, North Carolina

Construction Drawings
14 February 2012

Vicinity Map



GENERAL NOTES

1. CONTRACTOR MUST OBTAIN HOT WORK PERMITS DAILY FOR WELDING, SOLDERING, TORCH CUTTING, AND BURNING FROM THE VA MEDICAL CENTER FIRE & SAFETY OFFICE BEFORE BEGINNING WORK OF THIS TYPE. FIRE WATCH IS REQUIRED. CONTRACTOR TO FURNISH FIRE EXTINGUISHERS.
2. NO SMOKING EXCEPT IN DESIGNATED AREAS ONLY OUTSIDE OF THE BUILDING.
3. ALL DIMENSIONS SHALL BE VERIFIED CAREFULLY AND ANY DISCREPANCIES BROUGHT TO THE IMMEDIATE ATTENTION OF THE COTR.
4. THE CONTRACTOR SHALL PROTECT EXISTING CORRIDORS, ELEVATORS, DOORS, ETC. AND REPAIR ANY DAMAGE RESULTING FROM THE RENOVATION, DEMOLITION OR TRANSPORTATION OF MATERIALS ASSOCIATED WITH THIS PROJECT.
5. SEE SPECIFICATIONS FOR SPECIAL CAULKING IN FIRE/SMOKE PARTITIONS AND FLOOR PARTITIONS.
6. ANY HARD CEILINGS, CEILING TILES, GRID SYSTEM, LIGHT FIXTURES, AIR GRILLES, ETC. REMOVED BY THE CONTRACTOR TO FACILITATE THE WORK SHALL BE REPLACED IN THE ORIGINAL CONDITION AT THE CONCLUSION OF THE WORK. THIS IS IN AREAS EITHER ADJACENT TO THE PROJECT AND/OR IN AREAS WHERE THERE IS NO CEILING.
7. NOTIFY THE VA COTR IN WRITING PRIOR TO ANY CORE DRILLING OR JACK HAMMERING AS THIS MUST BE SCHEDULED AND APPROVED IN ADVANCE.
8. WOOD BLOCKING IS NOT ACCEPTABLE AS A SUBSTITUTE FOR SHEET METAL BLOCKING.
9. WHEN REPAIRING HARD CEILINGS, AND WALLS, MATCH EXISTING CONDITIONS, UNLESS OTHERWISE NOTED.
10. THE COTR SHALL BE GIVEN TWO WEEKS NOTICE, IN WRITING, BEFORE ANY SYSTEM SHUTDOWN IS REQUIRED. THIS WILL PROVIDE THE OWNER TIME TO MAKE THE NECESSARY SCHEDULING ARRANGEMENTS TO ACCOMMODATE THE SHUTDOWN.
11. REPAIR OR REPLACE ALL PROPERTY OF THE OWNER DAMAGED BY CONSTRUCTION, INCLUDING BUT NOT LIMITED TO: EQUIPMENT, FLOORS, BASES, CEILINGS, CEILING TILES.
12. IT WILL BE THE RESPONSIBILITY OF THE CONTRACTOR TO REPAIR ANY DAMAGED SPRINKLER PIPING DURING DEMOLITION AND CONSTRUCTION.
13. TEMPORARY LIGHTING WILL BE THE RESPONSIBILITY OF THE CONTRACTOR WHILE WORKING IN AREAS OF LOW LIGHT.
14. THE DRAWINGS AND SPECIFICATIONS ARE INTENDED TO BE FOR ASSISTANCE AND GUIDANCE, BUT EXACT LOCATIONS, DISTANCES, LEVELS, QUANTITIES SHALL BE GOVERNED BY ACTUAL CONDITIONS FOUND AT THE JOB SITE AND MUST BE VERIFIED BY THE CONTRACTOR. THE CONTRACTOR SHALL FIELD VERIFY ALL DIMENSIONS AND BECOME FAMILIAR WITH ALL AREAS OF THE EXISTING AFFECTED BY THE WORK, PRIOR TO COMMENCING THE WORK.
15. ALL DEBRIS IS TO BE DISPOSED OF OFF-SITE BY THE CONTRACTOR FOR ALL TRADES INVOLVED.
16. ALL WORK SHOWN SHALL BE PERFORMED AFTER HOURS MONDAY THROUGH FRIDAY 5:00 PM TO 6:00 AM, OR WEEKEND AND HOLIDAY WORK AS DETERMINED BY THE HOSPITAL'S SCHEDULE. WORKING HOURS SHALL BE COORDINATED WITH THE COTR.
17. PARKING IS LIMITED AND IS FIRST COME, FIRST SERVE. A LIMITED AMOUNT OF PARKING PASSES WILL BE ALLOTTED TO THE GENERAL CONTRACTOR FOR ALL OF THEIR SUBCONTRACTORS TO PARK IN THE DESIGNATED CONTRACTOR PARKING LOCATED 4 BLOCKS FROM THE FACILITY.
18. EQUIPMENT AND MATERIALS USED ON THIS PROJECT MUST MEET THE "BUY AMERICAN" ACT.

Drawing Sheet List

DRAWING SHEET LIST

Number	Sheet Name
ARCHITECTURAL	
A001	Cover Sheet
A101	Demolition & Renovation RCPs - Basement
A102	Demolition & Renovation RCPs - 10th Floor
A103	Demolition & Renovation Plans - Penthouse
HAZARDOUS MATERIALS	
H101	Asbestos Abatement Plan Basement
H102	Asbestos Abatement Plan 10th Floor & Penthouse
PLUMBING	
P101	Water Piping Plan - Basement
P102	Water Piping Plan - 10th Floor & Penthouse
P103	Water System Diagram

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ROUGHTON NICKELSON DE LUCA ARCHITECTS, PA REGISTERED ARCHITECTURAL CORPORATION NORTH CAROLINA CERT. NO. 400 DURHAM, N.C.

STEVEN T. PULLING REGISTERED ARCHITECT 11666 DURHAM 2-14-2012

CONSTRUCTION DOCUMENTS

REVISIONS

REV.	DESCRIPTION	DATE

RECOMMEND APPROVAL

Requestor:	Date:
Chief of Service:	Date:
Infection Control:	Date:
Chief of Staff:	Date:
Assoc. Med. Ctr. Dir.:	Date:

Drawing Title:
Cover Sheet

Approved Chief, Engineering Svc.:	Date:
APPROVED BY: MEDICAL CENTER DIRECTOR	Date:

Project Title:
Replace Cold Water Valves

Building No.	Designed by:	Drawn by:	Checked by:
1		STP	GDL

Location
Durham VAMC
508 Fulton St., Durham, NC

Date: 14 February 2012
Project No.: 558-12-101
Project ID No.: 12-E-02

DRAWING NO.
A001
Sheet of

Department of VETERANS AFFAIRS

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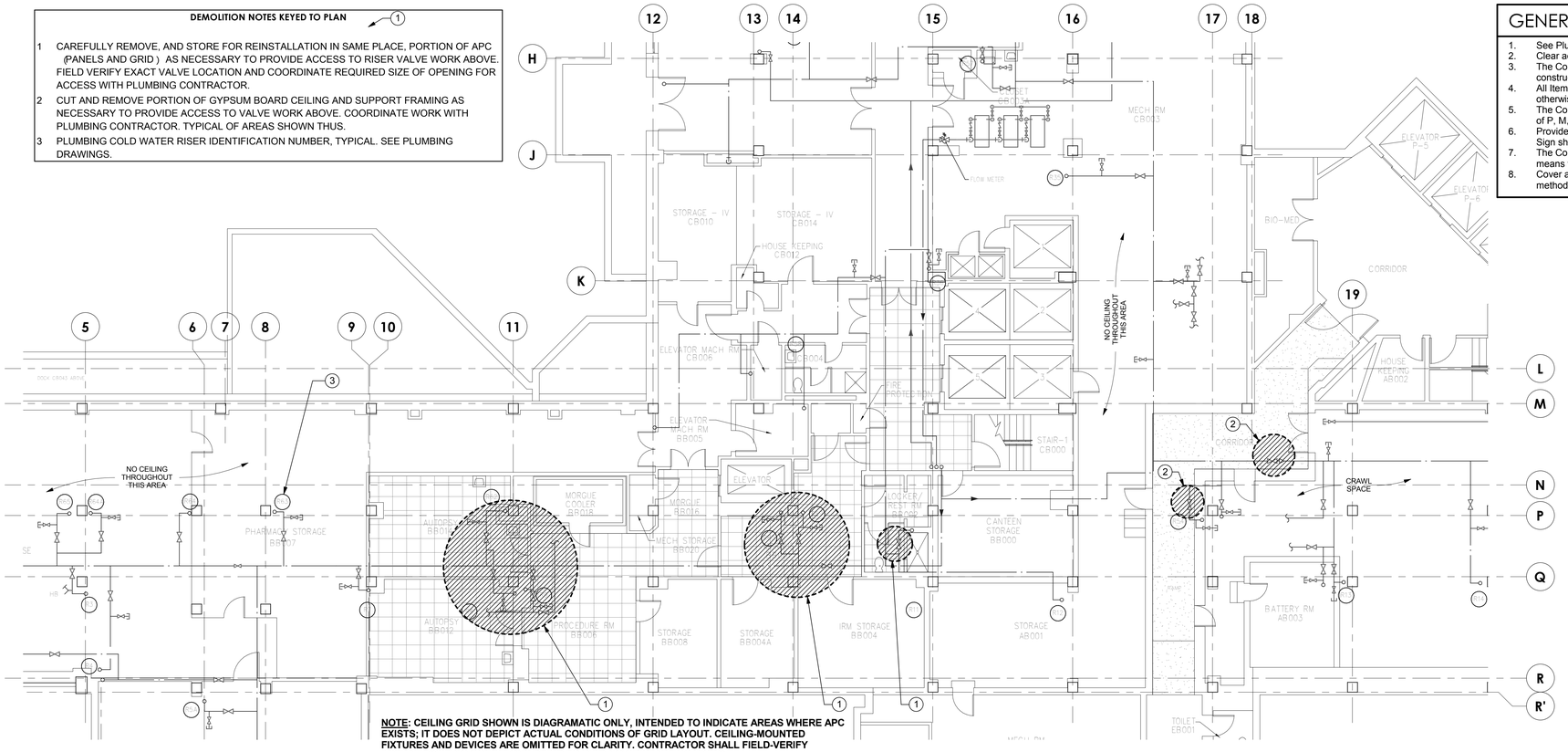
DEMOLITION NOTES KEYED TO PLAN (1)

1 CAREFULLY REMOVE, AND STORE FOR REINSTALLATION IN SAME PLACE, PORTION OF APC (PANELS AND GRID) AS NECESSARY TO PROVIDE ACCESS TO RISER VALVE WORK ABOVE. FIELD VERIFY EXACT VALVE LOCATION AND COORDINATE REQUIRED SIZE OF OPENING FOR ACCESS WITH PLUMBING CONTRACTOR.

2 CUT AND REMOVE PORTION OF GYPSUM BOARD CEILING AND SUPPORT FRAMING AS NECESSARY TO PROVIDE ACCESS TO VALVE WORK ABOVE. COORDINATE WORK WITH PLUMBING CONTRACTOR. TYPICAL OF AREAS SHOWN THUS.

3 PLUMBING COLD WATER RISER IDENTIFICATION NUMBER, TYPICAL. SEE PLUMBING DRAWINGS.



NOTE: CEILING GRID SHOWN IS DIAGRAMATIC ONLY, INTENDED TO INDICATE AREAS WHERE APC EXISTS; IT DOES NOT DEPICT ACTUAL CONDITIONS OF GRID LAYOUT. CEILING-MOUNTED FIXTURES AND DEVICES ARE OMITTED FOR CLARITY. CONTRACTOR SHALL FIELD-VERIFY ACTUAL EXISTING CONDITIONS PRIOR TO BIDDING OR STARTING WORK.

2 A101 Demolition Reflected Ceiling Plan Level 00 Basement
1/8" = 1'-0"

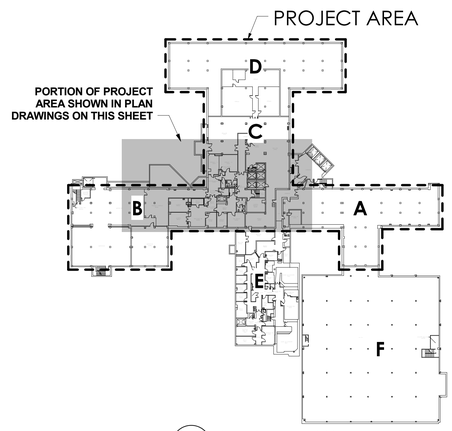
GENERAL DEMOLITION NOTES

1. See Plumbing Drawings for further demolition information.
2. Clear access to building exits shall be maintained at all times.
3. The Contractor shall provide protection for any finishes to remain. Contractor shall patch, repair, or replace any constructions or finishes damaged during demolition or construction.
4. All Items scheduled to be removed shall be disposed of properly by the Contractor, unless specifically noted otherwise. The Owner reserves the right to claim any items removed during demolition.
5. The Contractor shall be responsible for patching and fire stopping all floor and roof openings left by the removal of P, M, and E pipes, ducts, and conduits.
6. Provide signage on all doors into project area stating: "Construction Site - No Admittance" and name of project. Sign shall be professionally made with black letters on orange background.
7. The Contractor shall provide walk-off mats, temporary dust barriers (e.g., fire-treated plastic sheeting), or other means to minimize dust and debris in the building.
8. Cover all containers when transporting debris through the building. Coordinate debris removal routes and methods with C.O.T.R.

ASBESTOS WARNING:

ASBESTOS CONTAINING MATERIALS (ACM) ARE KNOWN TO EXIST IN THIS FACILITY, INCLUDING PIPING INSULATION DESIGNATED TO BE REMOVED. SEE SPECIFICATION SECTION 02 82 13.13.
IN THE EVENT THAT ASBESTOS CONTAINING MATERIALS ARE ENCOUNTERED IN THIS PROJECT THAT HAVE NOT BEEN PREVIOUSLY DOCUMENTED, THE CONTRACTOR SHALL IMMEDIATELY CEASE WORK IN THE INVOLVED AREA, SECURE THE AREA TO PREVENT INADVERTENT CONTAMINATION OR EXPOSURE, AND NOTIFY THE C.O.T.R.
UNDER NO CIRCUMSTANCES SHALL THE CONTRACTOR DISTURB ASBESTOS CONTAINING MATERIALS.

SEE SPECIFICATIONS FOR ADDITIONAL INFORMATION.



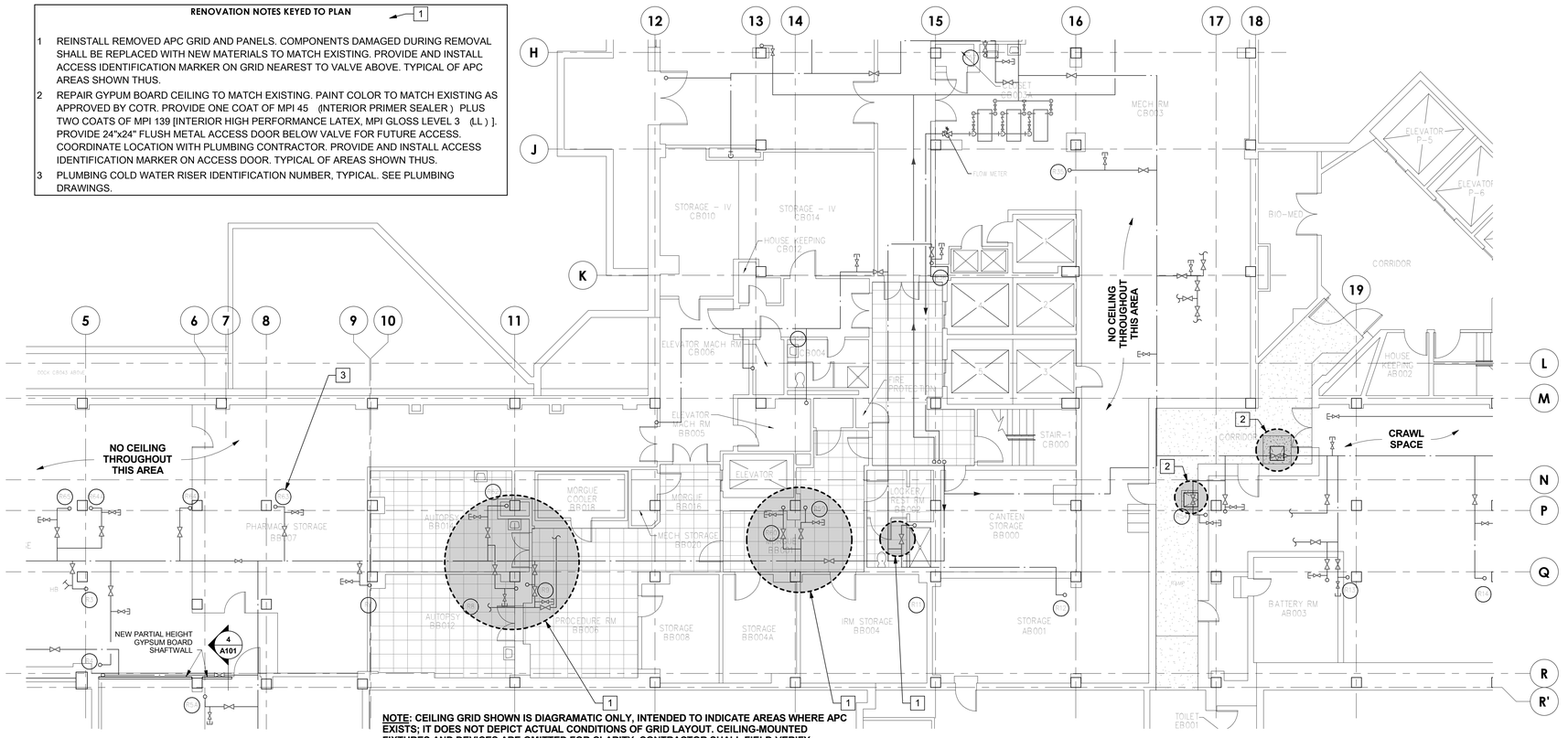
1 A101 Floor Plan - Level 00 Basement
1/64" = 1'-0"

RENOVATION NOTES KEYED TO PLAN (1)

1 REINSTALL REMOVED APC GRID AND PANELS. COMPONENTS DAMAGED DURING REMOVAL SHALL BE REPLACED WITH NEW MATERIALS TO MATCH EXISTING. PROVIDE AND INSTALL ACCESS IDENTIFICATION MARKER ON GRID NEAREST TO VALVE ABOVE. TYPICAL OF APC AREAS SHOWN THUS.

2 REPAIR GYPSUM BOARD CEILING TO MATCH EXISTING. PAINT COLOR TO MATCH EXISTING AS APPROVED BY COTR. PROVIDE ONE COAT OF MPI 45 (INTERIOR PRIMER SEALER) PLUS TWO COATS OF MPI 139 [INTERIOR HIGH PERFORMANCE LATEX, MPI GLOSS LEVEL 3 (LL)]. PROVIDE 24"x24" FLUSH METAL ACCESS DOOR BELOW VALVE FOR FUTURE ACCESS. COORDINATE LOCATION WITH PLUMBING CONTRACTOR. PROVIDE AND INSTALL ACCESS IDENTIFICATION MARKER ON ACCESS DOOR. TYPICAL OF AREAS SHOWN THUS.

3 PLUMBING COLD WATER RISER IDENTIFICATION NUMBER, TYPICAL. SEE PLUMBING DRAWINGS.



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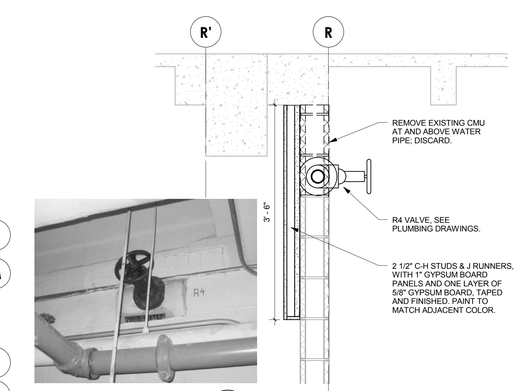
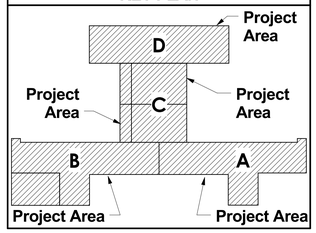
3 A101 Renovation Reflected Ceiling Plan Level 00 Basement
1/8" = 1'-0"



4 A101 Detail Wall Section At Embedded Valve
1" = 1'-0"

KEY PLAN



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STEVEN T. PULLINGS 11666 REGISTERED ARCHITECT NORTH CAROLINA DURHAM 2-19-2012

CONSTRUCTION DOCUMENTS

REVISIONS

REV.	DESCRIPTION	DATE

RECOMMEND APPROVAL

Requestor:	Date:
Chief of Service:	Date:
Infection Control:	Date:
Chief of Staff:	Date:
Assoc. Med. Ctr. Dir.:	Date:
Drawing Title:	
Demolition & Renovation RCPs - Basement	
Approved Chief, Engineering Svc.:	Date:
APPROVED BY:	Date:
MEDICAL CENTER DIRECTOR	
Project Title:	
Replace Cold Water Valves	

Building No.	Designed by:	Drawn by:	Checked by:
1		STP	GDL

Location
Durham VAMC
508 Fulton St., Durham, NC

Date: 14 February 2012
Project No.: 558-12-101
Project ID No.: 12-E-02

DRAWING NO.
A101
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Department of VETERANS AFFAIRS

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DEMOLITION NOTES KEYED TO PLAN (1)

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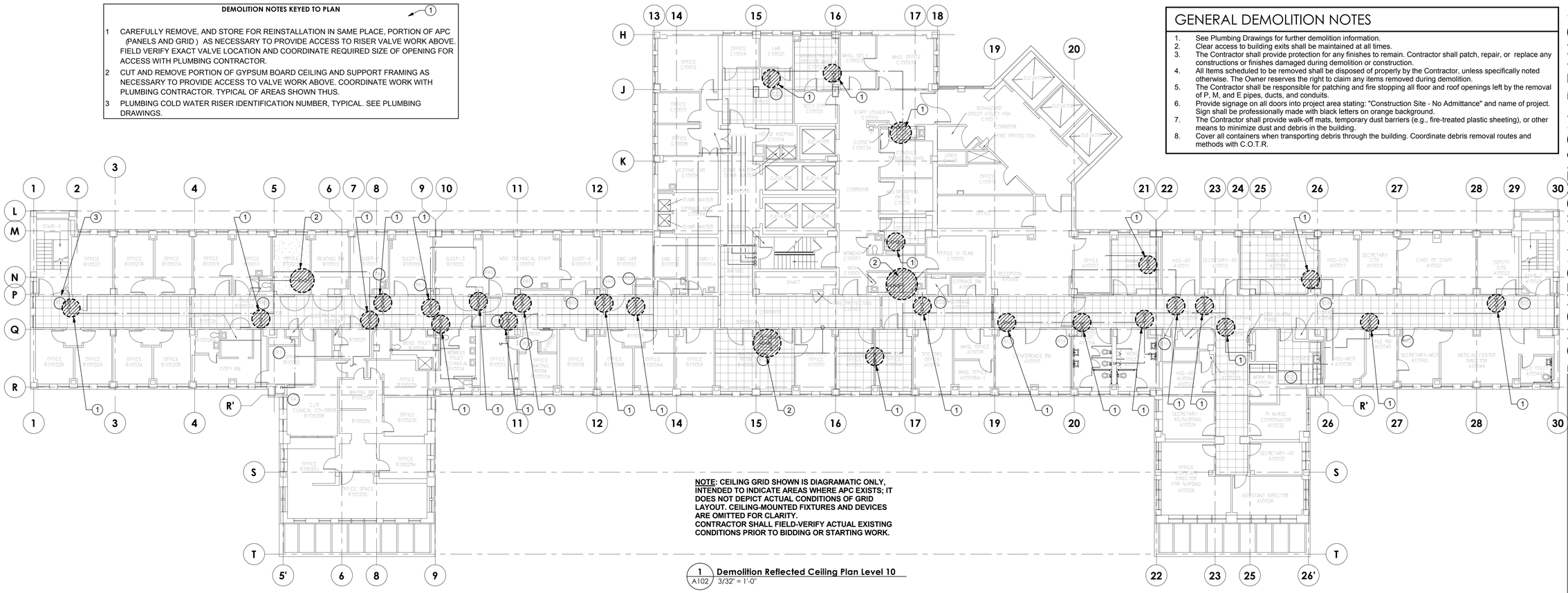

1 / A102 **Demolition Reflected Ceiling Plan Level 10**
3/32" = 1'-0"

GENERAL DEMOLITION NOTES

1. See Plumbing Drawings for further demolition information.
2. Clear access to building exits shall be maintained at all times.
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STEVEN T. PULLING REGISTERED ARCHITECT 11666 NORTH CAROLINA DURHAM 2-14-2012

CONSTRUCTION DOCUMENTS

RENOVATION NOTES KEYED TO PLAN (1)

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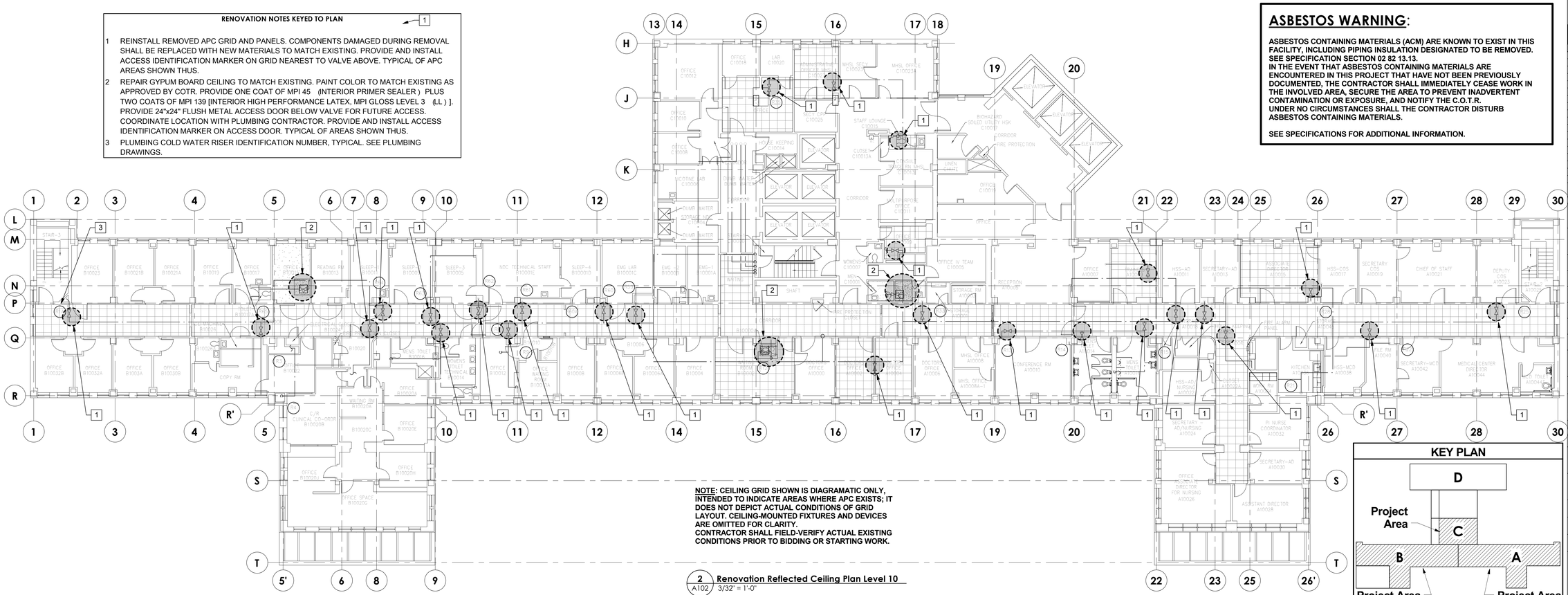

2 / A102 **Renovation Reflected Ceiling Plan Level 10**
3/32" = 1'-0"

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UNDER NO CIRCUMSTANCES SHALL THE CONTRACTOR DISTURB ASBESTOS CONTAINING MATERIALS.

SEE SPECIFICATIONS FOR ADDITIONAL INFORMATION.

KEY PLAN

REVISIONS

REV.	DESCRIPTION	DATE

RECOMMEND APPROVAL

Requestor:	Date:
Chief of Service:	Date:
Infection Control:	Date:
Chief of Staff:	Date:
Assoc. Med. Ctr. Dir.:	Date:

Drawing Title:
Demolition & Renovation RCPs - 10th Floor

Approved Chief, Engineering Svc.: Date:

APPROVED BY: Date:

MEDICAL CENTER DIRECTOR

Project Title:
Replace Cold Water Valves

Building No.	Designed by:	Drawn by:	Checked by:
1		STP	GDL

Location
Durham VAMC
508 Fulton St., Durham, NC

Date: 14 February 2012
Project No.: 558-12-101
Project ID No.: 12-E-02

DRAWING NO.
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Department of VETERANS AFFAIRS

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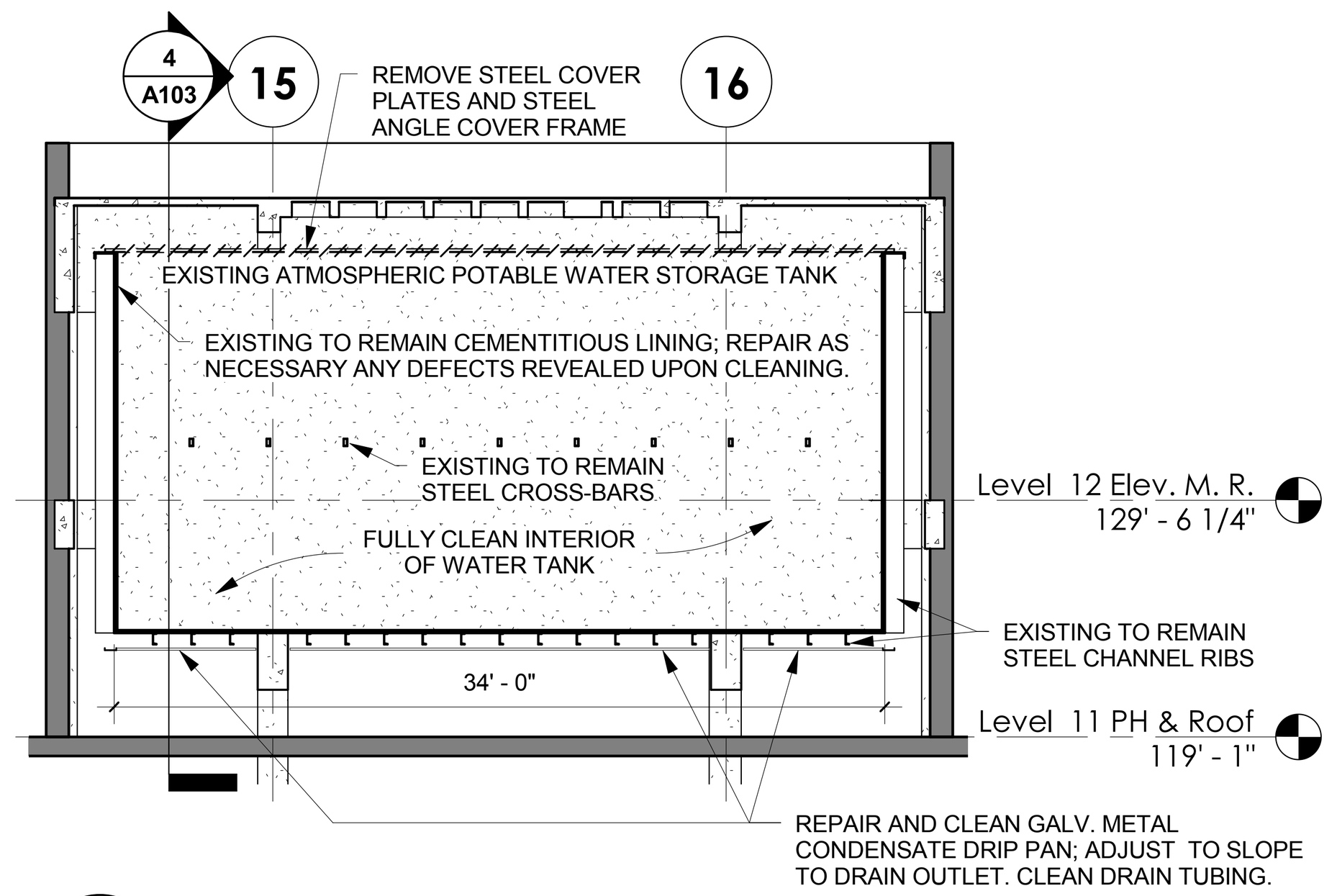
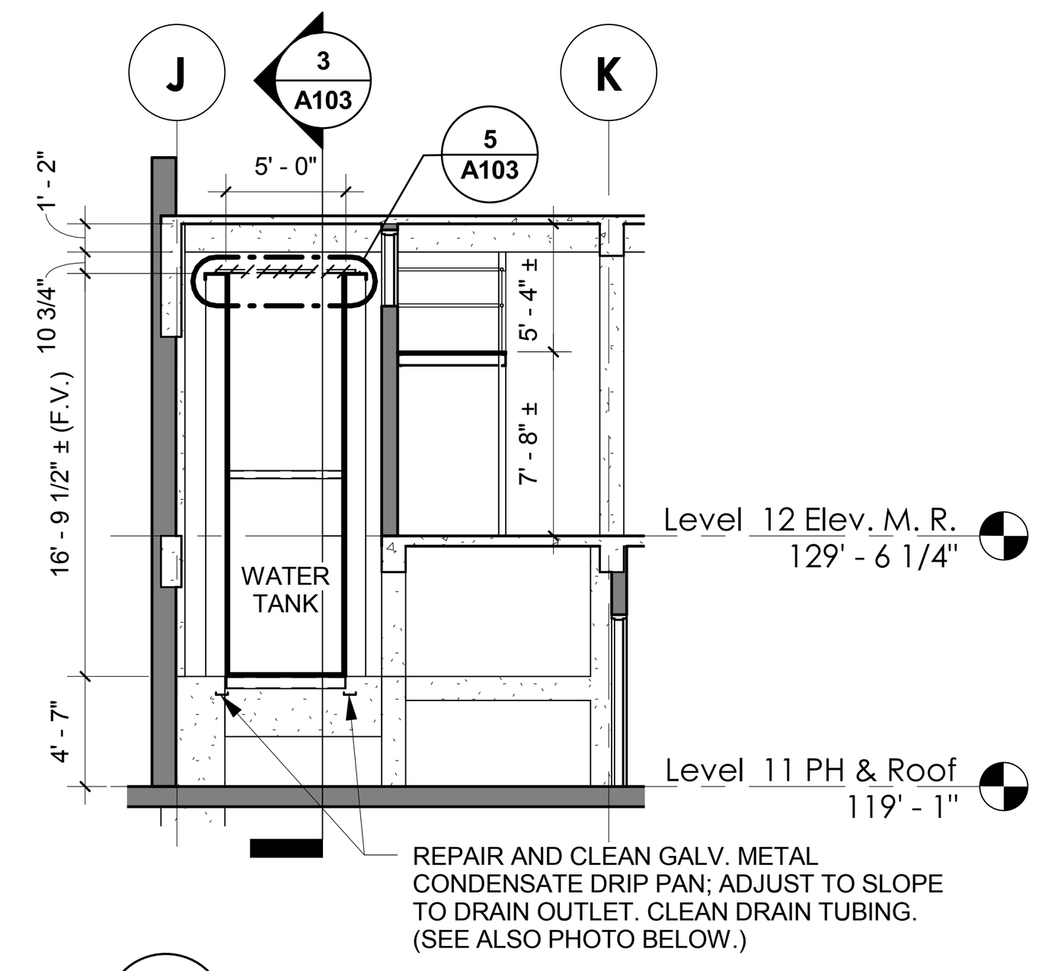
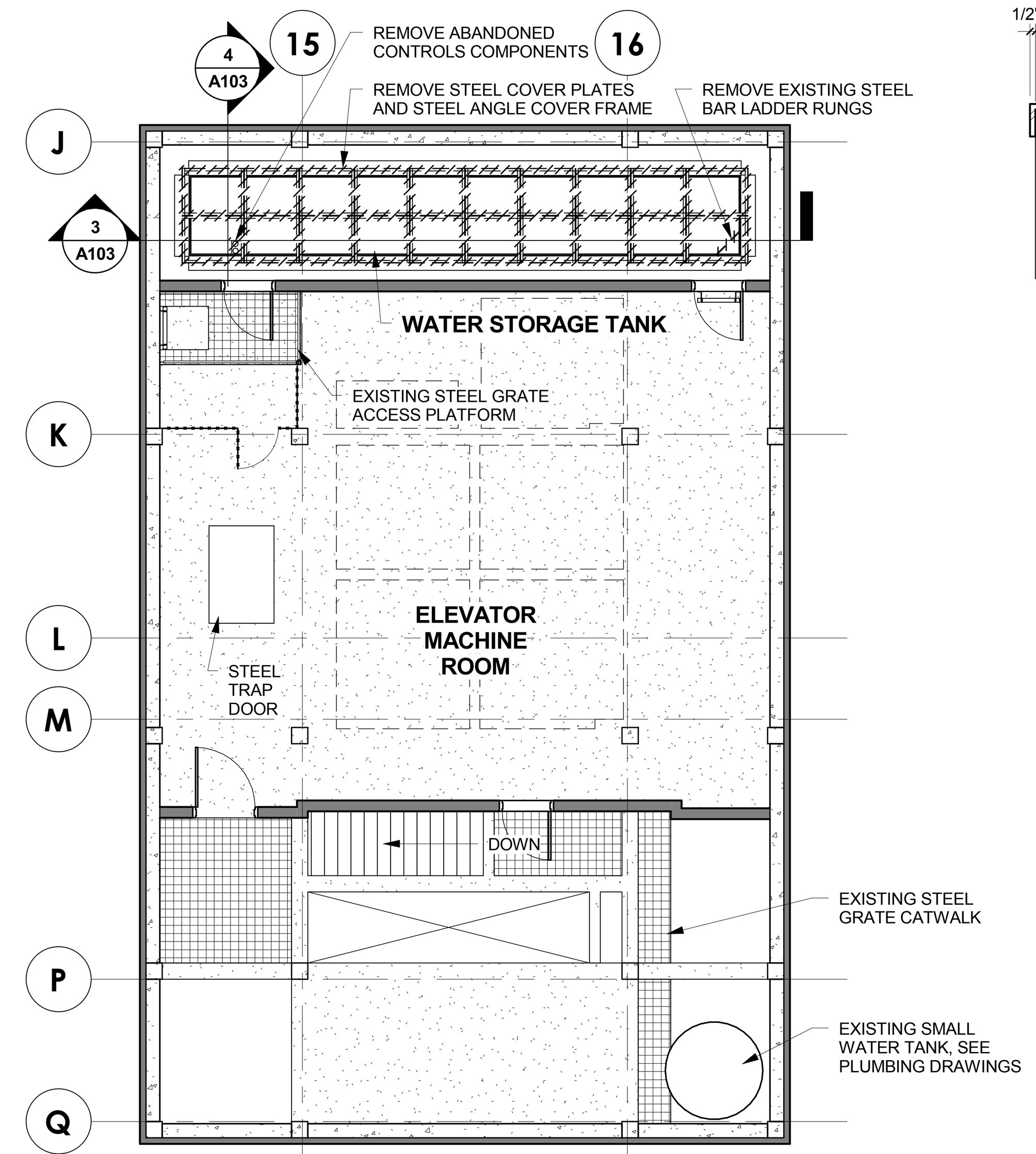


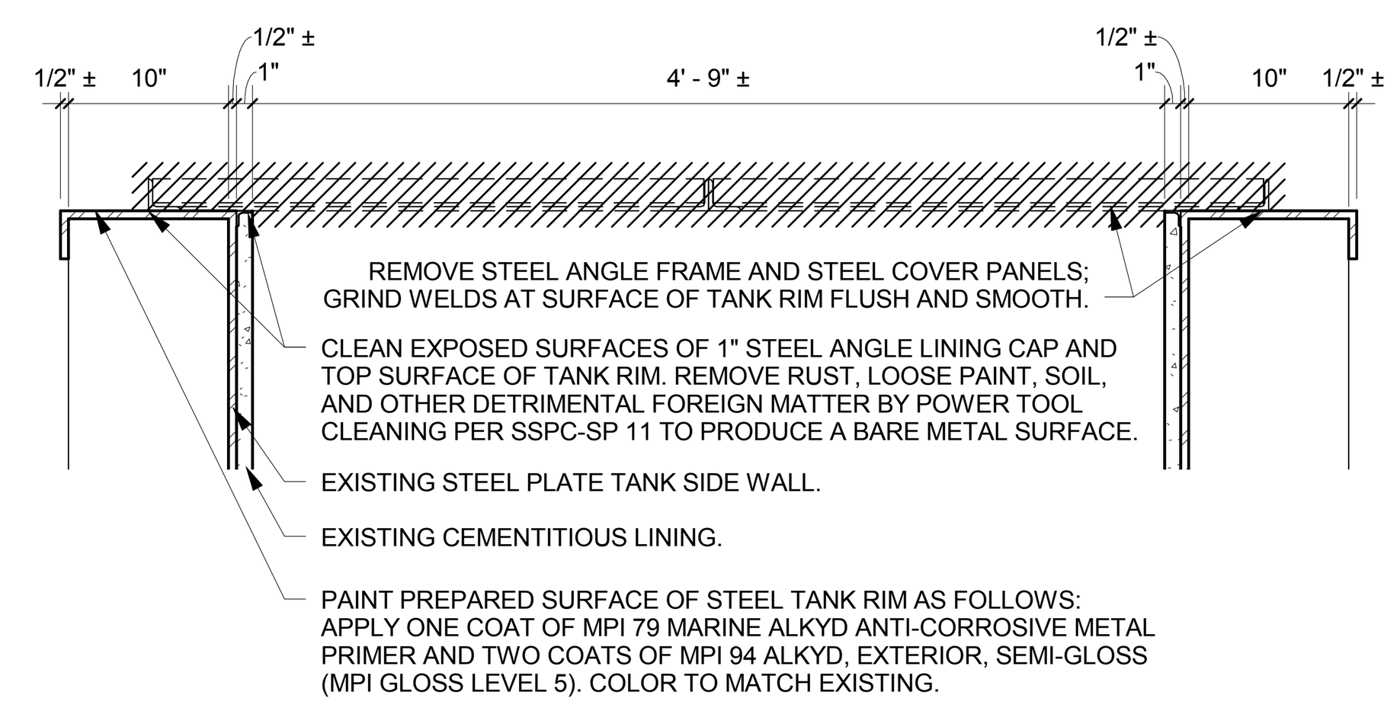
3 **Longitudinal Section At Water Tank**
A103 1/8" = 1'-0"



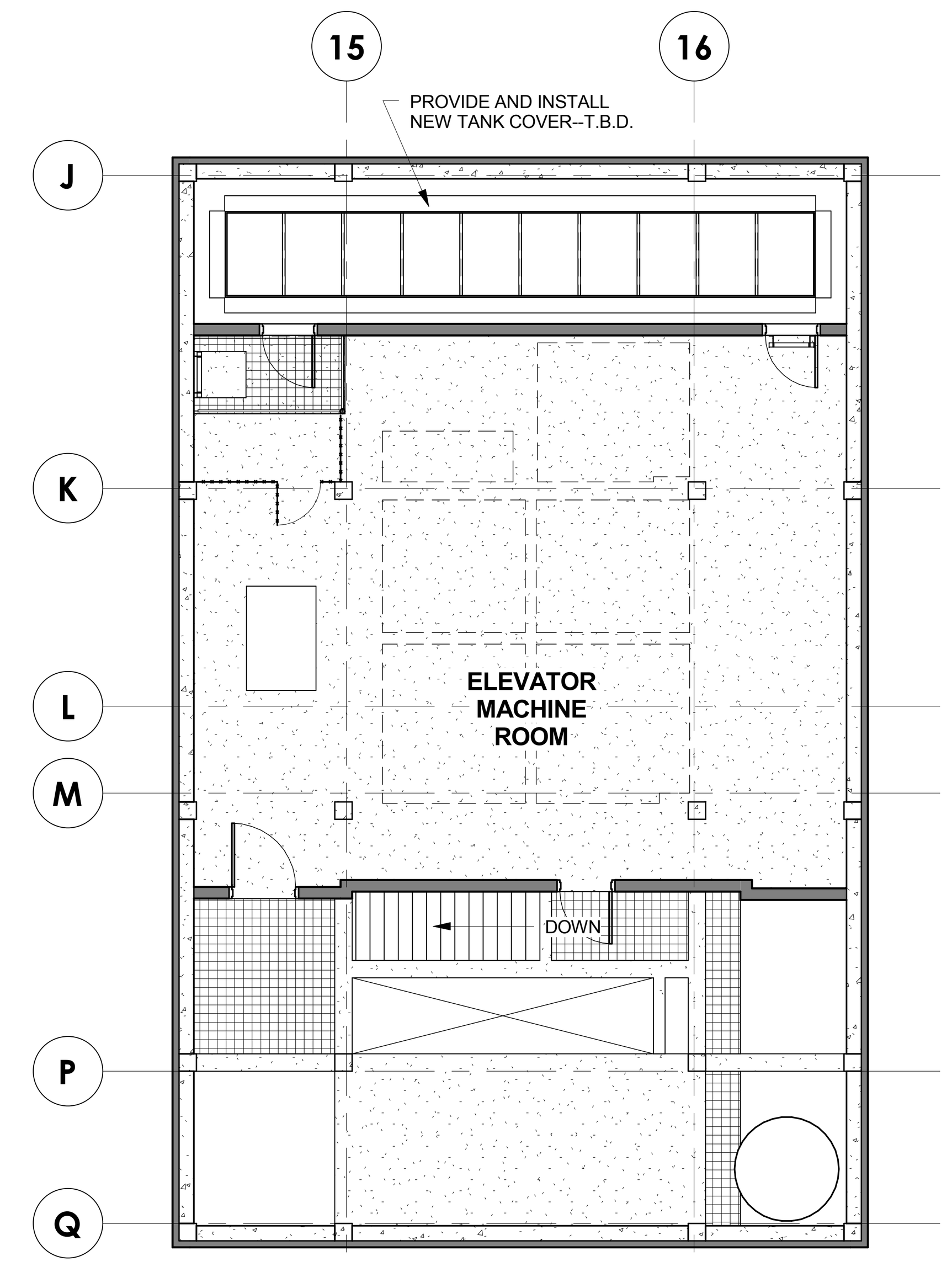
4 **Cross Section At Water Tank**
A103 1/8" = 1'-0"



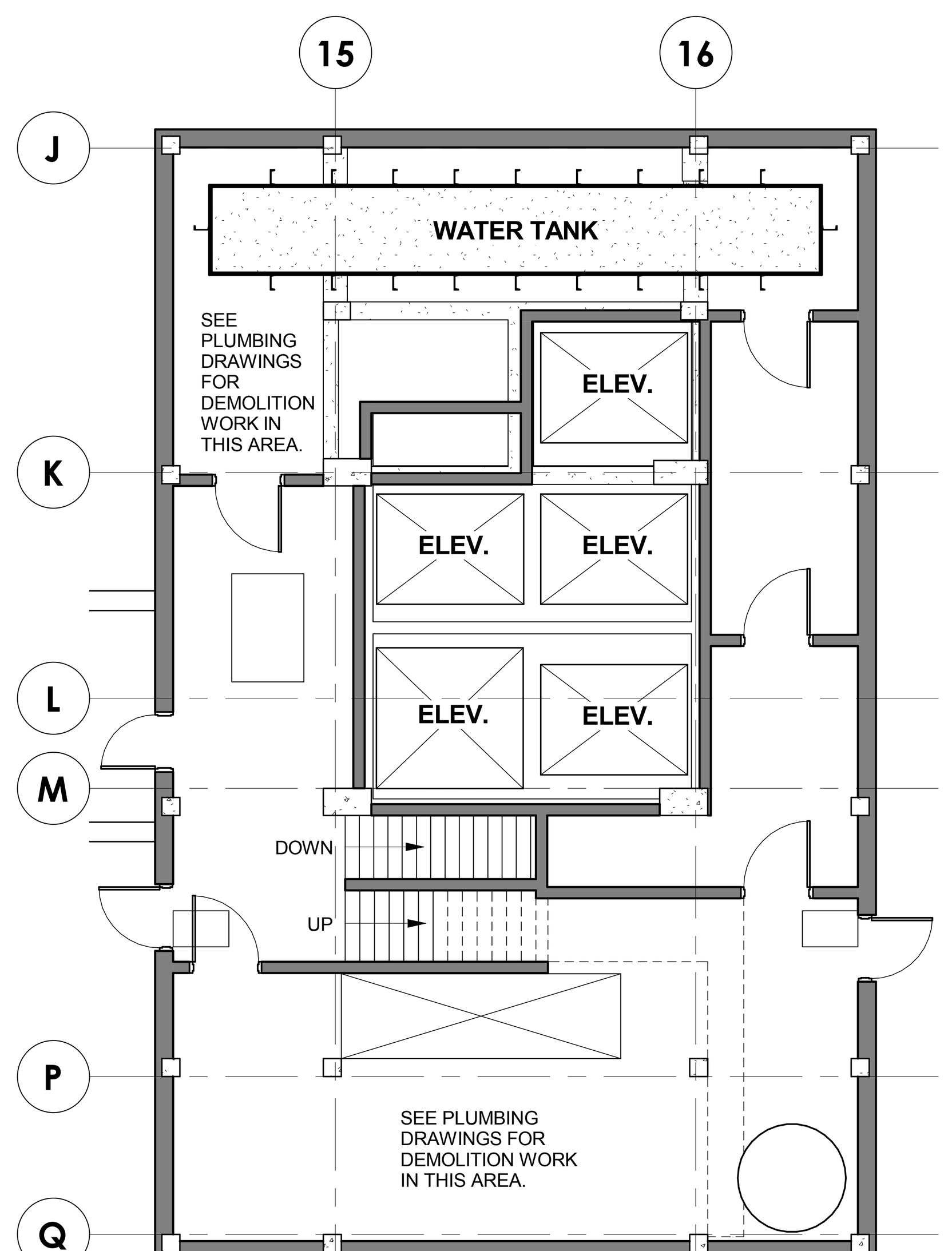
2 **Demolition Plan Level 12 - Penthouse**
A103 1/8" = 1'-0"



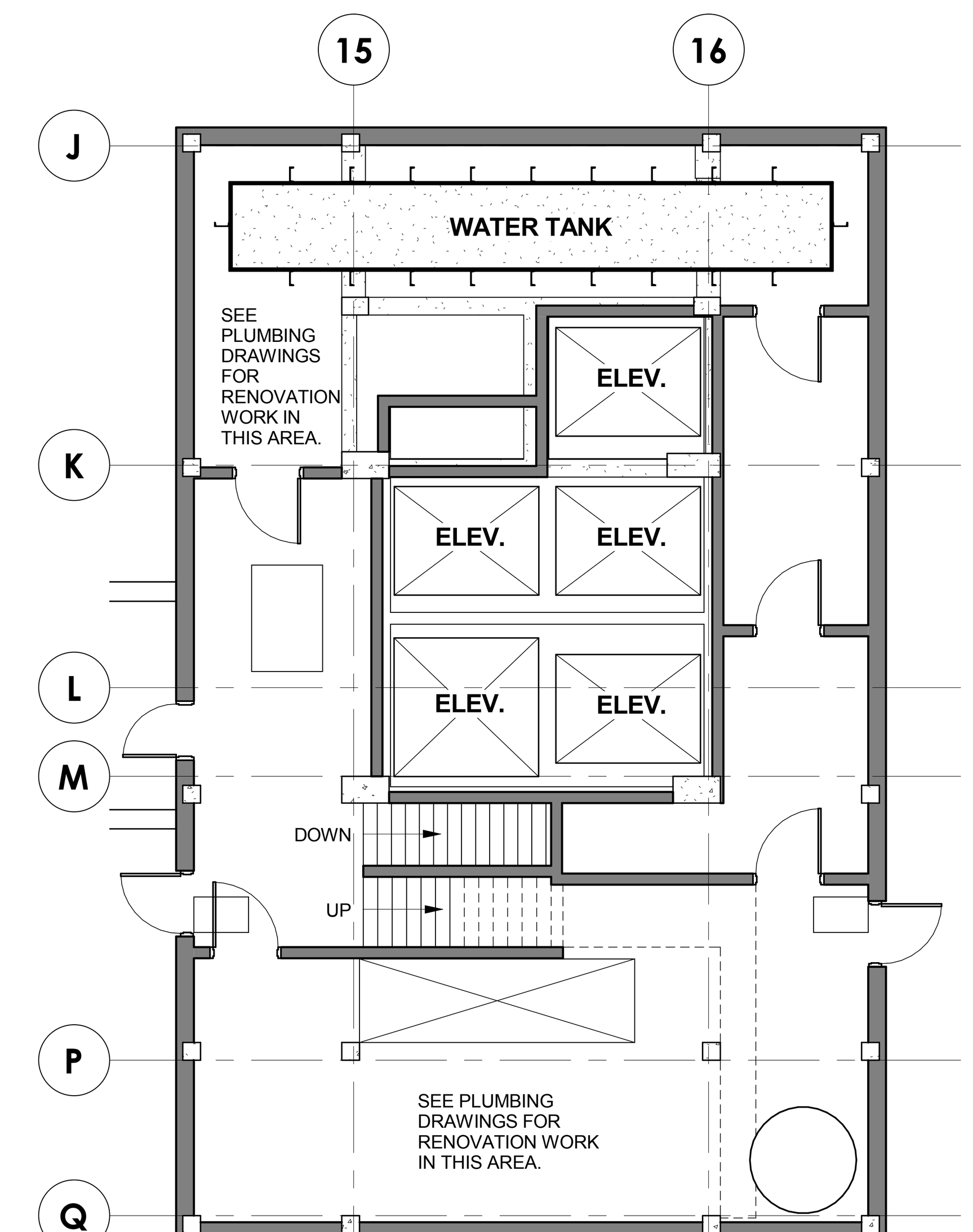
5 **Detail At Top Of Water Tank**
A103 1" = 1'-0"



7 **Renovation Plan Level 12 - Penthouse**
A103 1/8" = 1'-0"

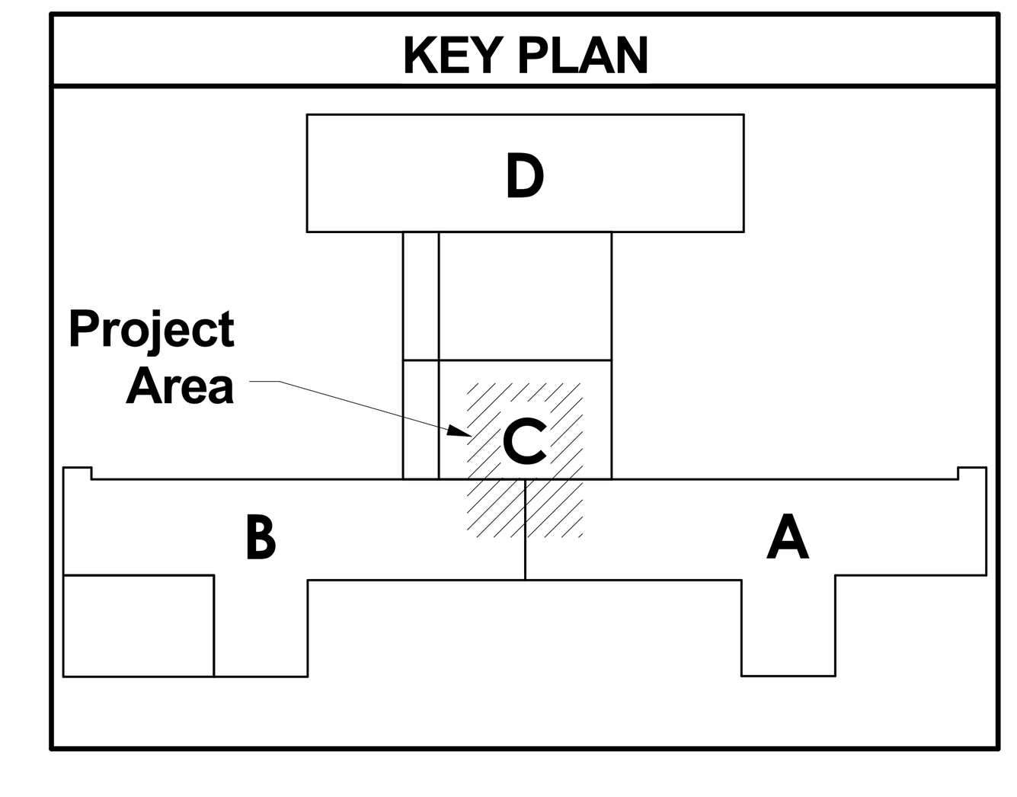


1 **Demolition Plan Level 11 - Penthouse**
A103 1/8" = 1'-0"



6 **Renovation Plan Level 11 - Penthouse**
A103 1/8" = 1'-0"

KEY PLAN



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ROUGHTON NICKELSON DE LUCA ARCHITECTS, PA — REGISTERED ARCHITECTURAL CORPORATION — NORTH CAROLINA — CERT. NO. 400 — DURHAM, N.C.

STEVEN T. PULLING — REGISTERED ARCHITECT — 11666 — DURHAM
2-14-2012

CONSTRUCTION DOCUMENTS

REVISIONS

REV.	DESCRIPTION	DATE

RECOMMEND APPROVAL

Requestor:	Date:
Chief of Service:	Date:
Infection Control:	Date:
Chief of Staff:	Date:
Assoc. Med. Ctr. Dir.:	Date:

Drawing Title:
Demolition & Renovation Plans - Penthouse

Approved Chief, Engineering Svc. — Date:

APPROVED BY: — Date:

MEDICAL CENTER DIRECTOR

Project Title:
Replace Cold Water Valves

Building No.	Designed by:	Drawn by:	Checked by:
1		STP	GDL

Location
Durham VAMC
508 Fulton St., Durham, NC

Date: 14 February 2012
Project No.: 558-12-101
Project ID No.: 12-E-02

DRAWING NO.
A103
Sheet of

Department of VETERANS AFFAIRS

Reinspection for Asbestos-Containing Materials, Department of Veterans Affairs, VA Medical Center, Durham, North Carolina Matrix Job No. 080107 , dated January 7, 2006 – Asbestos Inspection Data

APPROXIMATE QUANTITIES OF ASBESTOS-CONTAINING MATERIALS

ROOM NO.	ROOM DESCRIPTION	FLOOR TILE /MASTIC SQ. FT.	ELBOW FITTINGS	PIPE INSULATION L.F.	DUCT MASTIC L.F.
A8000	ENGINEERING STORAGE	--	--	--	--
A8001	ENGINEERING MECHANICAL RM	--	--	--	--
A8002	ENGINEERING BIOMED SHOP	--	--	--	--
A8003	ENGINEERING MECHANICAL RM	--	--	--	--
A8005	ENGINEERING MECHANICAL RM	--	--	--	--
A	CORRIDOR	200	4	--	--
A	STAIR	--	--	--	--
A	CRAWLSPACE	--	1	--	--

ROOM NO.	ROOM DESCRIPTION	FLOOR TILE /MASTIC SQ. FT.	ELBOW FITTINGS	PIPE INSULATION L.F.	DUCT MASTIC L.F.
B8000	STOR	261	--	--	6
B8001	LAB, CLIN MORGUE	--	--	--	28
B8002	LAB, CLIN LOCKER RM	--	--	--	20
B8002B	LAB, CLIN BATH/SHOWER RM	--	--	--	--
B8004	LAB, CLIN STOR	--	--	--	25
B8005	ENGINEERING MECHANICAL RM	--	--	--	--
B8006A	A&MMS WAREHOUSE	--	--	2	--
B8006B	ENGINEERING MECHANICAL RM	--	--	--	--
B8006D	A&MMS STOR	--	--	--	--
B8007	A&MMS WAREHOUSE	--	--	--	--
B8008	LAB, CLIN STOR	--	--	--	--
B8010	LAB, CLIN STOR	--	--	--	30
B8011	A&MMS WAREHOUSE	--	--	--	--
B8012	LAB, CLIN EXAM/TREAT	--	--	--	--
B8013	STAIR	--	--	--	--
B8014	LAB, CLIN MORGUE	--	--	--	--
B8016	LAB, CLIN STOR	--	--	--	--
B8018	LAB, CLIN WALK-IN COOLER	--	--	--	--
B8020	ENGINEERING MECHANICAL RM	--	N/A	N/A	N/A

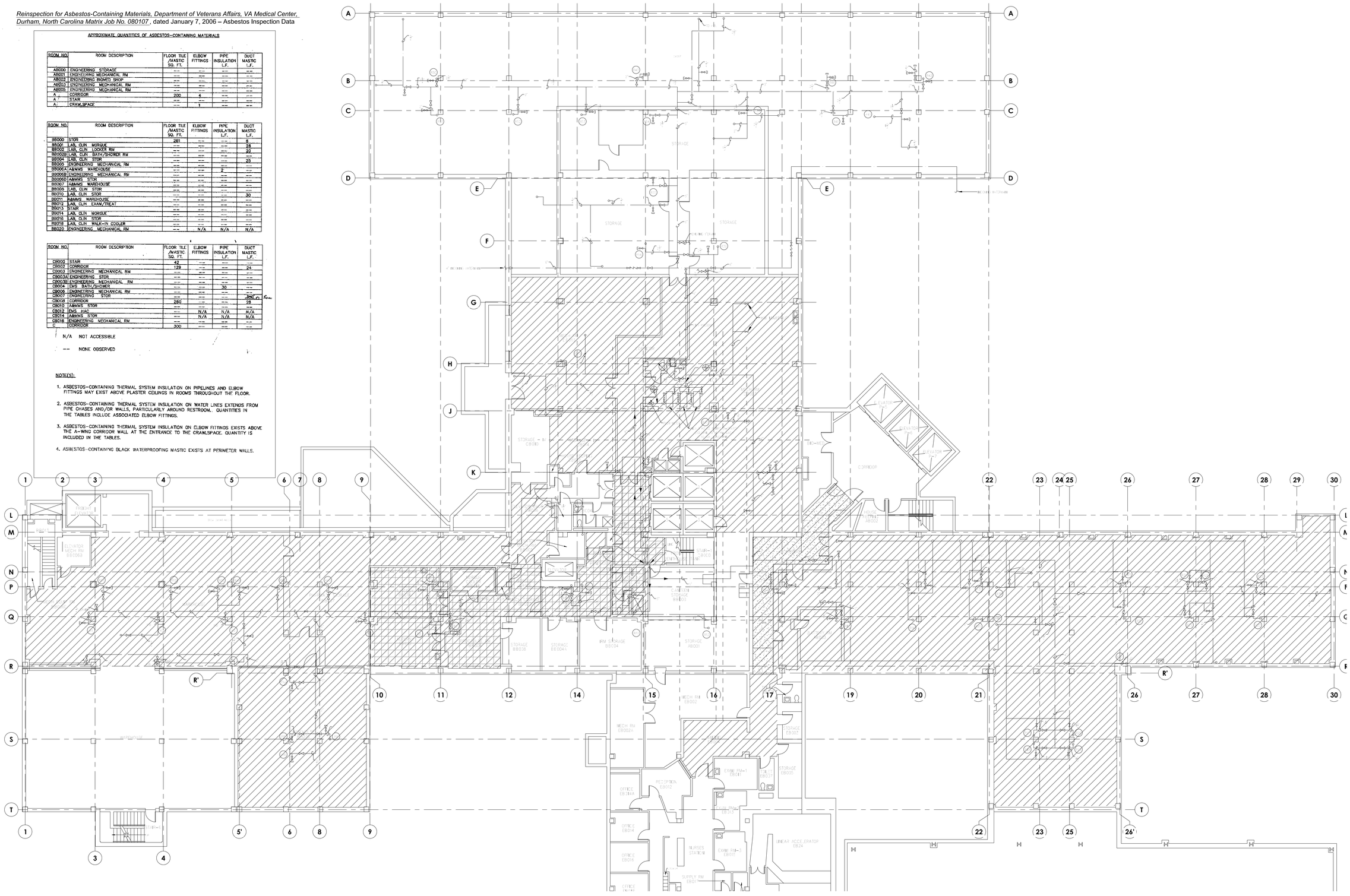
ROOM NO.	ROOM DESCRIPTION	FLOOR TILE /MASTIC SQ. FT.	ELBOW FITTINGS	PIPE INSULATION L.F.	DUCT MASTIC L.F.
C8000	STAIR	42	--	--	--
C8002	CORRIDOR	128	--	--	24
C8003	ENGINEERING MECHANICAL RM	--	--	--	--
C8003A	ENGINEERING STOR	--	--	--	--
C8003B	ENGINEERING MECHANICAL RM	--	--	--	--
C8004	EMS BATH/SHOWER	--	--	30	--
C8005	ENGINEERING MECHANICAL RM	--	--	--	--
C8007	ENGINEERING STOR	--	--	--	200
C8008	CORRIDOR	280	--	--	28
C8010	A&MMS STOR	--	--	--	--
C8012	EMS HAC	--	N/A	N/A	N/A
C8014	A&MMS STOR	--	N/A	N/A	N/A
C8016	ENGINEERING MECHANICAL RM	--	--	--	--
C	CORRIDOR	300	--	--	--

N/A NOT ACCESSIBLE

-- NONE OBSERVED

NOTE(S):

1. ASBESTOS-CONTAINING THERMAL SYSTEM INSULATION ON PIPELINES AND ELBOW FITTINGS MAY EXIST ABOVE PLASTER CEILINGS IN ROOMS THROUGHOUT THE FLOOR.
2. ASBESTOS-CONTAINING THERMAL SYSTEM INSULATION ON WATER LINES EXTENDS FROM PIPE CHASES AND/OR WALLS, PARTICULARLY AROUND RESTROOM. QUANTITIES IN THE TABLES INCLUDE ASSOCIATED ELBOW FITTINGS.
3. ASBESTOS-CONTAINING THERMAL SYSTEM INSULATION ON ELBOW FITTINGS EXISTS ABOVE THE A-WING CORRIDOR WALL AT THE ENTRANCE TO THE CRAWLSPACE. QUANTITY IS INCLUDED IN THE TABLES.
4. ASBESTOS-CONTAINING BLACK WATERPROOFING MASTIC EXISTS AT PERIMETER WALLS.



Areas of known asbestos containing materials in renovation scope *per the Reinspection for Asbestos-Containing Materials, Department of Veterans Affairs, VA Medical Center, Durham, North Carolina Matrix Job No. 080107* , dated January 7, 2006 prepared by Matrix Health & Safety Consultants, L.L.C. (Matrix) of Raleigh, North Carolina, and provided by the VA Medical Center to RND Architects, PA and S&ME, Inc. for use with this project.

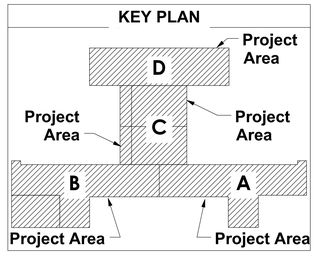
Coordinate the schedule, phasing and asbestos abatement operations with the Mechanical contractor secured by the Veterans Administration to perform the overall Cold Water Valve renovation project. Observed all limitations with respect to access to VA facilities, placement and location of regulated areas, hours of operation and temporary storage and transport of asbestos waste with the VA representative. Investigate the piping and fittings in the indicated valve replacement/renovation area. Closely coordinate the location and extent of work with the Mechanical contractor. Remove all asbestos-containing pipe insulation on valves indicated for replacement/renovation. Remove sufficient asbestos-containing insulation on the associated piping/valves as well as that on any near-by piping systems in areas sufficient to allow non-asbestos trained personnel to access and replace/renovate the indicated valves. Coordinate with Mechanical contractor to determine the extent of asbestos pipe insulation removal required. Likewise, coordinate with the Mechanical contractor and remove any asbestos-containing piping/valve insulation required for tie-ins and temporary (or permanent) bypass piping systems required for the project (these maybe outside the indicated valve replacement/renovation areas). Seal the ends of any exposed remaining asbestos insulation and any damaged asbestos insulation within the indicated renovation area with a sealant approved by the VA Medical Center to allow for the re-insulation of exposed piping/valves by non-asbestos trained personnel (re-insulation by others). Label the remaining asbestos containing insulation in the regulated areas in accordance with 29 CFR 1926.1101 and VA Medical Center labeling requirements.

PLUMBING KEY NOTES:

1. MAIN DRAIN VALVE
2. SACRIFICIAL VALVES

PLUMBING LEGEND	
CW	COLD WATER
	COLD WATER PIPING
	ELBOW UP
	ELBOW DOWN
	SERVICE VALVE
	CHECK VALVE
HB	HOSE BIBB
	UNION
	EXISTING TO BE REMOVED
	CONNECT TO EXISTING
	DEMOLISH TO THIS APPROX. POINT
	EXISTING RISER NUMBER

KEY PLAN



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S&ME

JOB NO:	1584-12-014
SCALE:	AS SHOWN
DRAWN BY:	RDM
CHECKED BY:	DWF
DATE:	14 FEBRUARY 2012
FIGURE NO:	H101

CONSTRUCTION DOCUMENTS

REVISIONS

REV.	DESCRIPTION	DATE

RECOMMEND APPROVAL

Requestor:	Date:
Chief of Service:	Date:
Infection Control:	Date:
Chief of Staff:	Date:
Assoc. Med. Ctr. Dir.:	Date:

Drawing Title:
Asbestos Abatement Plan Basement

Approved Chief, Engineering Svc.:	Date:
APPROVED BY: MEDICAL CENTER DIRECTOR	Date:

Project Title:
Replace Cold Water Valves

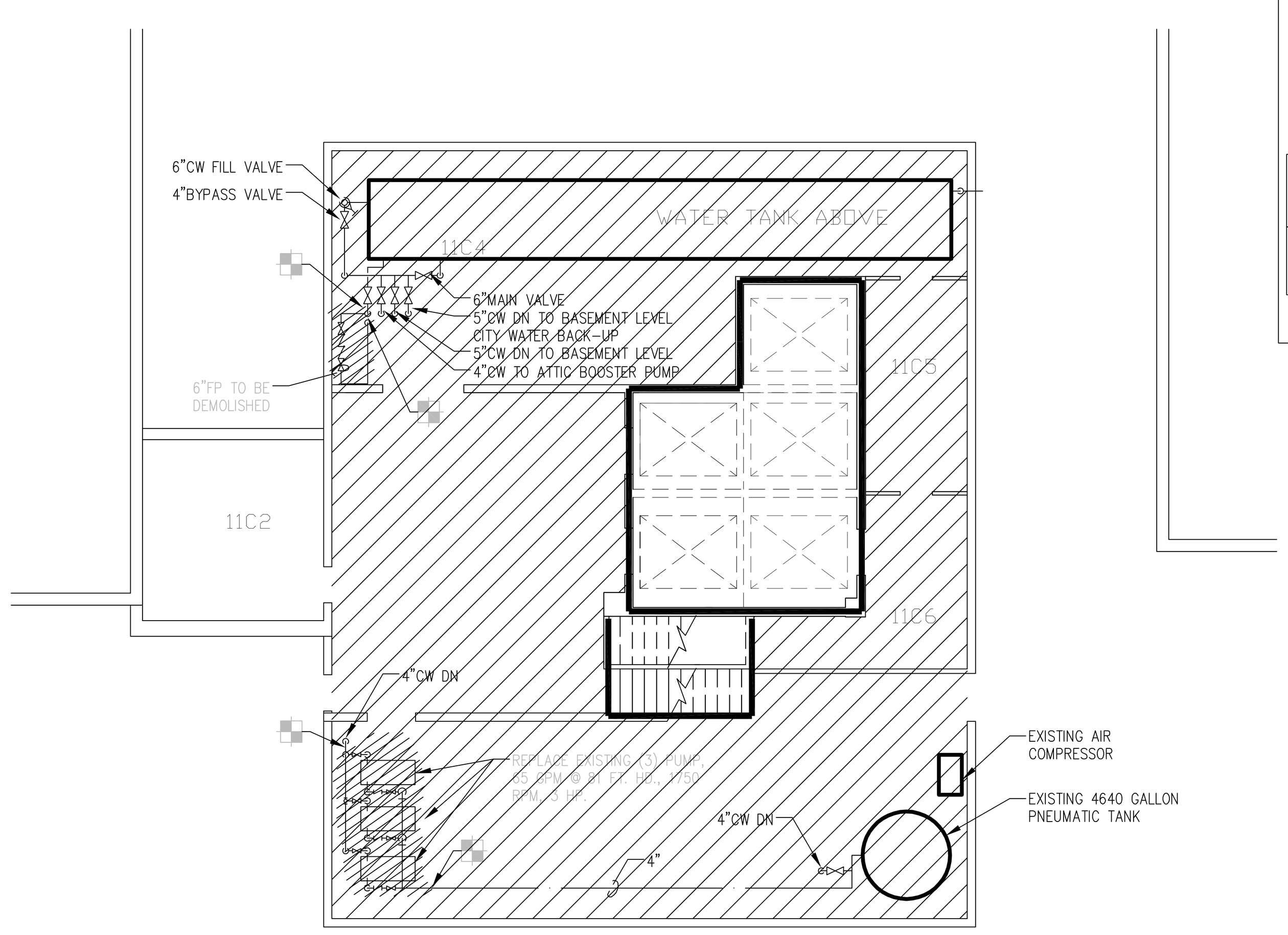
Building No.	Designed by:	Drawn by:	Checked by:
1		STP	GDL

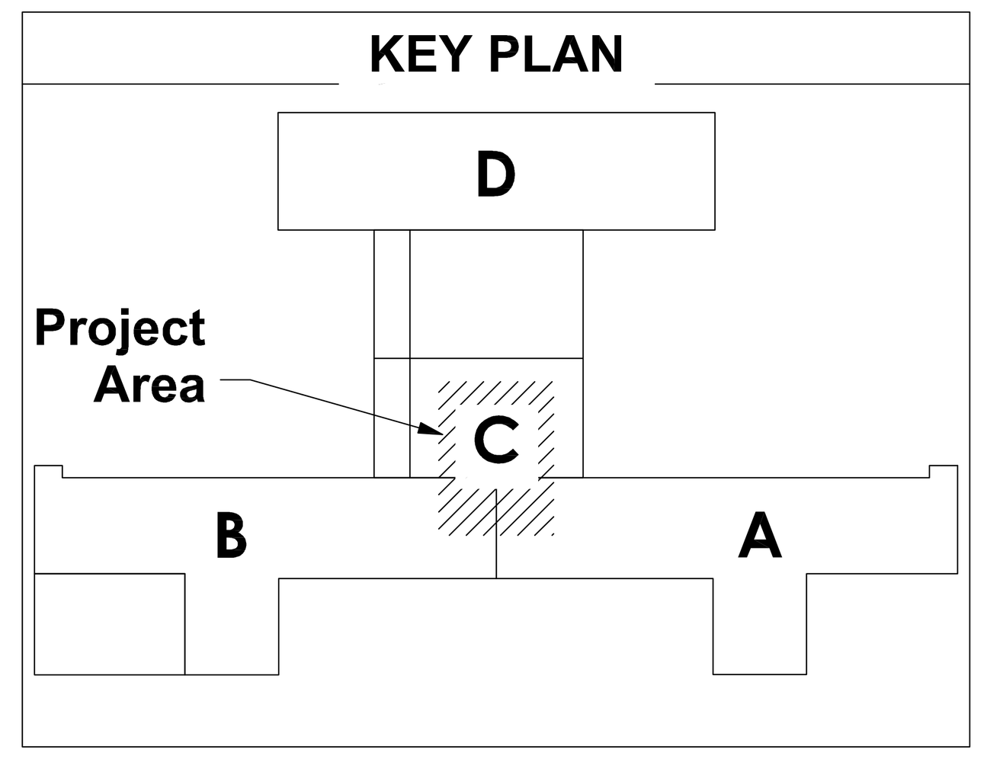
Location
Durham VAMC
508 Fulton St., Durham, NC

Date: 14 February 2012
Project No.: 558-12-101
Drawing ID No.: 12-E-02

DRAWING NO.
H101
Sheet of

Department of VETERANS AFFAIRS





NOTE: THE CONTRACTOR IS RESPONSIBLE FOR THE REMOVAL OF ALL INSULATION THROUGHOUT ALL LEVELS OF THE PENTHOUSE.

PENTHOUSE

Reinspection for Asbestos-Containing Materials, Department of Veterans Affairs, VA Medical Center, Durham, North Carolina Matrix Job No. 080107, dated January 7, 2006 – Asbestos Inspection Data

APPROXIMATE QUANTITIES OF ASBESTOS–CONTAINING MATERIALS

ROOM NO.	ROOM DESCRIPTION	FLOOR TILE /MASTIC SQ. FT.	ELBOW FITTINGS	PIPE INSULATION L.F.	DUCT MASTIC L.F.
	C–WING PENTHOUSE	--	6	60	--
	ELEVATOR EXPANSION PENTHOUSE	--	--	--	--

NOTE(S):

1. ASBESTOS–CONTAINING THERMAL SYSTEM INSULATION ON ELBOW FITTINGS WAS OBSERVED IN THE C–WING PENTHOUSE.
2. ASBESTOS–CONTAINING THERMAL SYSTEM INSULATION ON PIPELINES WAS OBSERVED IN THE C–WING PENTHOUSE.
2. NO ASBESTOS–CONTAINING MATERIALS WERE FOUND IN THE ELEVATOR EXPANSION PENTHOUSE.

Reinspection for Asbestos-Containing Materials, Department of Veterans Affairs, VA Medical Center, Durham, North Carolina Matrix Job No. 080107, dated January 7, 2006 – Asbestos Inspection Data

BUILDING No. 1 A, B & C-WINGS TENTH FLOOR

APPROXIMATE QUANTITIES OF ASBESTOS–CONTAINING MATERIALS

ROOM NO.	ROOM DESCRIPTION	FLOOR TILE /MASTIC SQ. FT.	ELBOW FITTINGS	PIPE INSULATION L.F.	DUCT MASTIC L.F.
A10000	PSYCHIATRY OFFICE	147	2	--	--
A10001	EMS HAC	--	N/A	N/A	N/A
A10002	PSYCHIATRY OFFICE	149	2	--	--
A10003	PSYCHOLOGY EQUIP STOR	40	N/A	N/A	N/A
A10004	PSYCHIATRY OFFICE	135	--	3	--
A10005	GRECC GEROFIT	~~80~~	--	--	--
A10005A	GRECC GEROFIT	~~64~~	~~3~~	--	--
A10006	PSYCHIATRY OFFICE	146	--	--	--
A10007	EMS STORAGE	--	--	--	--
A10007A	EMS STORAGE	--	--	--	--
A10008	PSYCHOLOGY OFFICE	75	--	--	--
A10008A	PSYCHOLOGY OFFICE	78	--	--	--
A10009	PSYCHOLOGY MULTIPURPOSE RM	~~158~~	2	20	--
A10010	PSYCHOLOGY OFFICE	~~160~~	--	--	--
A10010A	PSYCHOLOGY OFFICE	~~89~~	--	--	35
A10010B	PSYCHOLOGY OFFICE	~~80~~	4	20	--
A10011	PSYCHOLOGY OFFICE	~~135~~	--	--	--
A10011A	PSYCHOLOGY OFFICE	~~69~~	--	20	--
A10011B	PSYCHOLOGY OFFICE	~~54~~	3	--	--
A10013	PSYCHOLOGY OFFICE	~~140~~	--	20	--
A10014	PSYCHOLOGY OFFICE	~~159~~	2	--	--
A10015	PSYCHOLOGY OFFICE	~~142~~	5	20	--
A10016	EMS FEMALE TOILET	--	--	100	--
A10017	PSYCHOLOGY OFFICE	~~131~~	--	20	--
A10017A	PSYCHOLOGY STAFF TOILET	--	--	20	--
A10018	EMS MALE TOILET	--	--	20	--
A10019	PSYCHIATRY OFFICE	~~147~~	8	20	--
A10020	PSYCHIATRY STORAGE	--	--	--	--
A10021	RESEARCH LAB	~~254~~	5	20	--
A10022	PSYCHOLOGY OFFICE	~~100~~	6	--	--
A10022A	CLOSET	--	10	20	--
A10023	RESEARCH LAB	~~157~~	7	10	--
A10024	PSYCHOLOGY OFFICE	137	3	--	--
A10025	STAIRS	--	--	--	--
A10026	PSYCHOLOGY OFFICE	~~102~~	2	--	--
A10028	PSYCHOLOGY OFFICE	~~165~~	--	--	--
A10030	PSYCHOLOGY OFFICE	~~164~~	--	--	--
A10032	PSYCHOLOGY OFFICE	~~102~~	--	--	--
A10034	PSYCHOLOGY LAB	~~183~~	1	--	-
A10036	PSYCHOLOGY FILE RM STOR	~~60~~	3	--	2
A10038	PSYCHOLOGY OFFICE	--	14	18	20
A10040	ENGINEERING ELEC. EQUIP	--	--	--	--
A10042	PSYCHOLOGY ANTE RM	--	--	--	--
A10042A	PSYCHOLOGY OFFICE	--	4	7	--
A10042B	PSYCHOLOGY STAFF TOILET	--	--	--	--
A10044	RESEARCH OFFICE	~~270~~	--	--	--
A10044A	RESEARCH OFFICE	~~50~~	--	32	--
A10044B	RESEARCH OFFICE	~~46~~	--	30	--
A10046	RESEARCH OFFICE	~~74~~	--	--	--
A10046A	RESEARCH OFFICE	~~106~~	--	--	--
A10046B	RESEARCH OFFICE	~~69~~	2	--	--
A	CORRIDOR	1650	3	139	240

ROOM NO.	ROOM DESCRIPTION	FLOOR TILE /MASTIC SQ. FT.	ELBOW FITTINGS	PIPE INSULATION L.F.	DUCT MASTIC L.F.
B10000	PSYCHIATRY PHYSICIAN OFFICE	121	--	--	--
B10000A	PSYCHIATRY STAFF TOILET	--	N/A	N/A	N/A
B10001	PHYSICAL MEDICI OFFICE	--	3	40	36
B10001A	PHYSICAL MEDICI CHIEF REC THERAPY	--	--	--	14
B10002	PSYCHIATRY PHYSICIAN OFFICE	149	--	--	6
B10003	PSYCHIATRY STORAGE	--	N/A	N/A	N/A
B10004	PSYCHIATRY ASST CHIEF OFFICE	144	--	--	10
B10005	PSYCHIATRY OFFICE	--	--	--	12
B10006A	PSYCHIATRY OFFICE	150	--	20	10
B10006B	PSYCHIATRY OFFICE	120	4	--	10
B10007	PSYCHIATRY STORAGE	--	--	3	--
B10008	PHYSICAL MEDICI CHIEF OFFICE	--	1	20	10
B10009	PSYCHIATRY OFFICE	135	3	15	10
B10010	PHYSICAL MEDICI STORAGE	--	4	20	--
B10010A	KILN RM	--	--	--	8
B10011	PSYCHIATRY OFFICE	141	N/A	N/A	N/A
B10012	PHYSICAL MEDICI STOR	--	--	--	10
B10013	PSYCHIATRY OFFICE	141	N/A	N/A	N/A
B10014	EMS FEMALE TOILET	--	N/A	N/A	N/A
B10015	SOCIAL WORK OFFICE	--	3	20	10
B10016	EMS BATH/SHOWER	--	10	30	--
B10017	SOCIAL WORK SEC OFFICE	--	--	20	10
B10017A	SOCIAL WORK STAFF TOILET	--	12	--	--
B10018	VOLUNTARY STORAGE	--	--	6	--
B10019	SOCIAL WORK CHIEF OFFICE	142	2	20	10
B10020	ENTRY	20	--	--	--
B10020A	MEDICAL ADMIN CODING	--	11	20	--
B10020B	MEDICAL INFEC OFFICE	211	1	--	--
B10021	SOCIAL WORK ANTE RM	15	--	--	--
B10021A	SOCIAL WORK ASST CHIEF	135	8	10	3
B10021B	SOCIAL WORK SEC OFFICE	126	4	10	--
B10022	PSYCHOLOGY OFFICE	120	6	6	20
B10023	SOCIAL WORK OFFICE	151	4	20	--
B10024	ENGINEERING ELEC EQUIP	--	N/A	N/A	N/A
B10025	STAIRS	--	--	--	--
B10026	SOCIAL WORK STOR	55	--	10	8
B10026A	SOCIAL WORK RM	170	3	18	4
B10026B	SOCIAL WORK RM	--	--	--	6
B10030	SOCIAL WORK ANTE RM	20	--	--	--
B10030A	SOCIAL WORK OFFICE	118	2	10	--
B10030B	SOCIAL WORK OFFICE	114	2	10	--
B10032	MEDICAL ADMINIS ANTE RM	20	2	--	--
B10032A	SOCIAL WORK OFFICE	115	2	10	--
B10032B	SOCIAL WORK OFFICE	118	3	10	--
B	CORRIDOR	2045	30	60	265

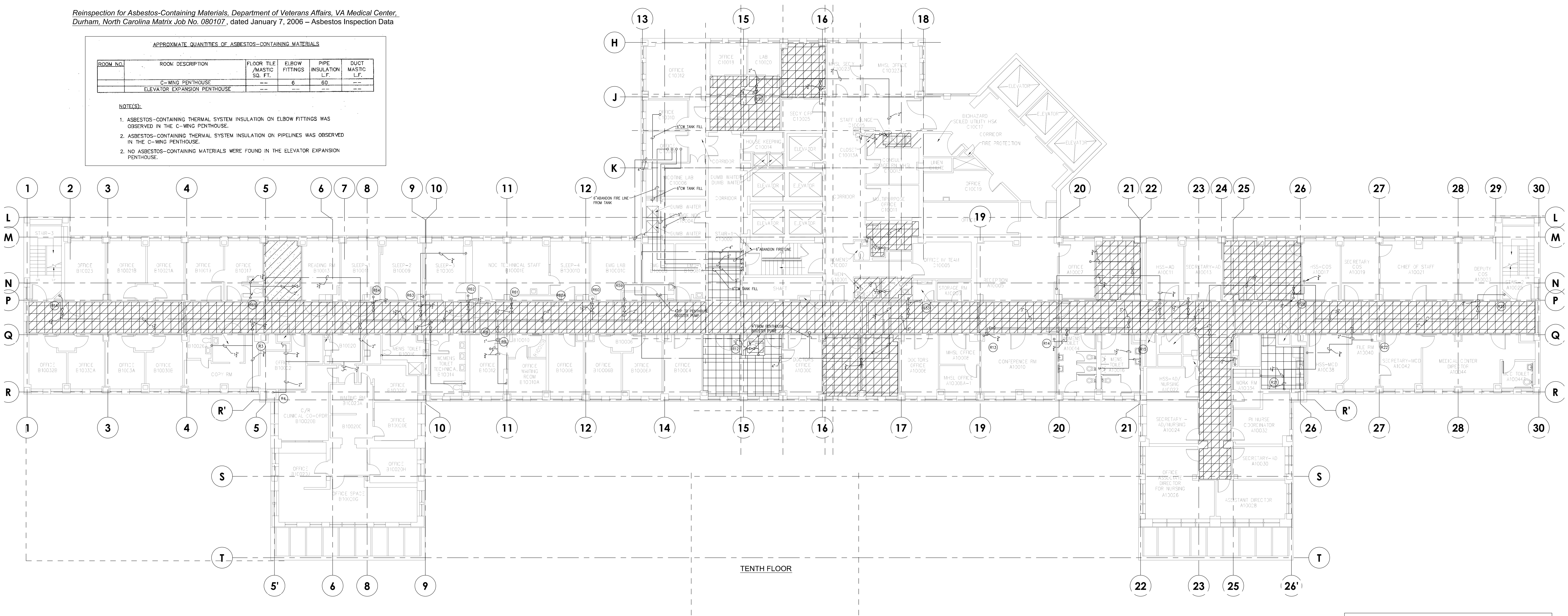
ROOM NO.	ROOM DESCRIPTION	FLOOR TILE /MASTIC SQ. FT.	ELBOW FITTINGS	PIPE INSULATION L.F.	DUCT MASTIC L.F.
C10000	STAIRS	--	--	--	--
C10001	EMS MALE TOILET	--	N/A	N/A	N/A
C10003	EMS FEMALE TOILET	--	N/A	N/A	N/A
C10004	PHYSICAL MEDICI DAY RM	--	1	20	--
C10005	PSYCHIATRY MULTIPURPOSE RM	--	--	--	--
C10006	RESEARCH LAB	125	2	12	--
C10007	EMS FEMALE TOILET	--	6	20	N/A
C10008	RESEARCH OFFICE	78	--	--	10
C10009	PSYCHIATRY COPY RM	92	1	16	--
C10010	RESEARCH OFFICE	81	--	--	10
C10011	PSYCHIATRY CLERK	116	--	16	--
C10012	RESEARCH OFFICE	211	4	20	28
C10013	PSYCHIATRY OFFICE	118	N/A	N/A	N/A
C10013A	PSYCHIATRY EQUIP STORAGE	6	N/A	10	N/A
C10014	SPD DUMBWAITER	50	N/A	N/A	N/A
C10015	PSYCHIATRY STAFF TOILET	--	N/A	N/A	N/A
C10016	RESEARCH SEC OFFICE	220	--	18	22
C10017	EMS LINEN CHUTE	--	--	--	--
C10018	RESEARCH OFFICE	64	6	20	N/A
C10019	PSYCHIATRY OFFICE	--	--	--	--
C10020	RESEARCH OFFICE	64	4	20	2
C10021	PSYCHIATRY CONF RM	205	--	--	--
C10023	PSYCHIATRY OFFICE	116	9	20	--
C10023A	PSYCHIATRY OFFICE, CHIEF	187	--	8	--
C10025	PSYCHOLOGY OFFICE	80	--	--	25
C10027	PSYCHIATRY OFFICE	148	5	20	--
C	CORRIDOR	1068	10	38	240

N/A NOT ACCESSIBLE

-- NONE OBSERVED

NOTE(S):

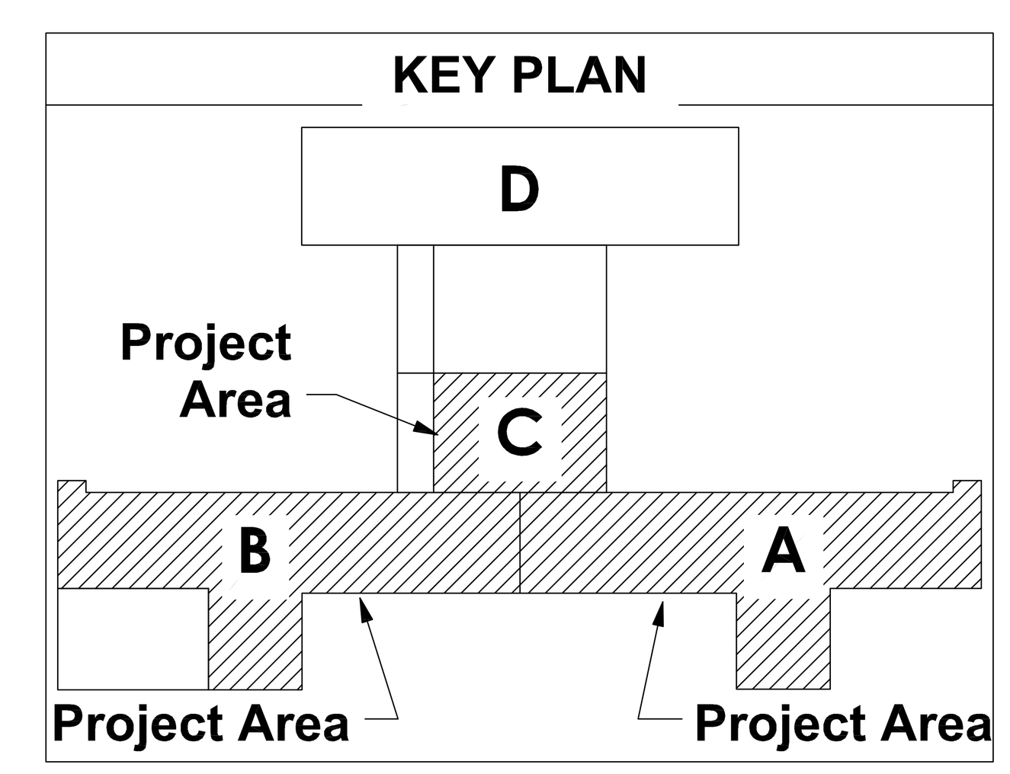
1. ASBESTOS–CONTAINING THERMAL SYSTEM INSULATION ON ELBOW FITTINGS ASSOCIATED WITH THE ORIGINAL HEATING SYSTEM EXISTS ALONG THE PERIMETER OF THE FLOOR. QUANTITIES OF THESE ARE INCLUDED IN THE TABLES. OTHER ELBOW FITTINGS ASSOCIATED WITH WATER LINES EXTEND FROM VARIOUS PIPE CHASES THROUGHOUT THE FLOOR. THESE ARE INCLUDED IN THE LINEAR FOOTAGE OF PIPE INSULATION IN THE TABLES.
2. ASBESTOS–CONTAINING THERMAL SYSTEM INSULATION ON WATER LINES EXTENDS FROM VARIOUS PIPE CHASES AND WALLS THROUGHOUT THE FLOOR, PARTICULARLY AROUND RESTROOMS. QUANTITIES IN THE TABLES INCLUDE ASSOCIATED ELBOW FITTINGS.
3. ASBESTOS–CONTAINING THERMAL SYSTEM INSULATION ON PIPELINES AND ELBOW FITTINGS MAY EXIST ABOVE PLASTER CEILINGS IN ROOMS THROUGHOUT THE FLOOR.
4. ~~ASBESTOS–CONTAINING COUNTERTOP IS LOCATED IN ROOM A10021.~~
5. ASBESTOS–CONTAINING BLACK WATERPROOFING MASTIC EXISTS AT PERIMETER WALLS.



TENTH FLOOR

Areas of known asbestos containing materials in renovation scope *per the Reinspection for Asbestos-Containing Materials, Department of Veterans Affairs, VA Medical Center, Durham, North Carolina Matrix Job No. 080107*, dated January 7, 2006 prepared by Matrix Health & Safety Consultants, L.L.C. (Matrix) of Raleigh, North Carolina, and provided by the VA Medical Center to RND Architects, PA and S&ME, Inc. for use with this project.

Coordinate the schedule, phasing and asbestos abatement operations with the Mechanical contractor secured by the Veterans Administration to perform the overall Cold Water Valve renovation project. Observed all limitations with respect to access to VA facilities, placement and location of regulated areas, hours of operation and temporary storage and transport of asbestos waste with the VA representative. Investigate the piping and fittings in the indicated valve replacement/renovation area. Closely coordinate the location and extent of work with the Mechanical contractor. Remove all asbestos-containing pipe insulation on valves indicated for replacement/renovation. Remove sufficient asbestos-containing insulation on the associated piping/valves as well as that on any near-by piping systems in areas sufficient to allow non-asbestos trained personnel to access and replace/renovate the indicated valves. Coordinate with Mechanical contractor to determine the extent of asbestos pipe insulation removal required. Likewise, coordinate with the Mechanical contractor and remove any asbestos-containing piping/valve insulation required for tie-ins and temporary (or permanent) bypass piping systems required for the project (these maybe outside the indicated valve replacement/renovation areas). Seal the ends of any exposed remaining asbestos insulation and any damaged asbestos insulation within the indicated renovation area with a sealant approved by the VA Medical Center to allow for the re-insulation of exposed piping/valves by non-asbestos trained personnel (re-insulation by others). Label the remaining asbestos containing insulation in the regulated areas in accordance with 29 CFR 1926.1101 and VA Medical Center labeling requirements.



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JOB NO.	1584-12-014
SCALE:	AS SHOWN
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CHECKED BY:	DWF
DATE:	14 FEBRUARY 2012
FIGURE NO.	H102

THE AMERICAN BOARD OF INDUSTRIAL HYGIENE ★ INCORPORATED ★ CERTIFICATION NUMBER 9516 CP ★ EXPIRES 6-1-2014 ★ DENNIS W. FORBIS

CONSTRUCTION DOCUMENTS

REVISIONS

REV.	DESCRIPTION	DATE

RECOMMEND APPROVAL

Requestor:	Date:
Chief of Service:	Date:
Infection Control:	Date:
Chief of Staff:	Date:
Assoc. Med. Ctr. Dir.:	Date:

Drawing Title:
Asbestos Abatement Plan
10th Floor & Penthouse

Approved Chief, Engineering Svc.	Date:
APPROVED BY: MEDICAL CENTER DIRECTOR	Date:

Project Title:
Replace Cold Water Valves

Building No.	Designed by:	Drawn by:	Checked by:
1		STP	GDL

Location
Durham VAMC
508 Fulton St., Durham, NC

Date: 14 February 2012

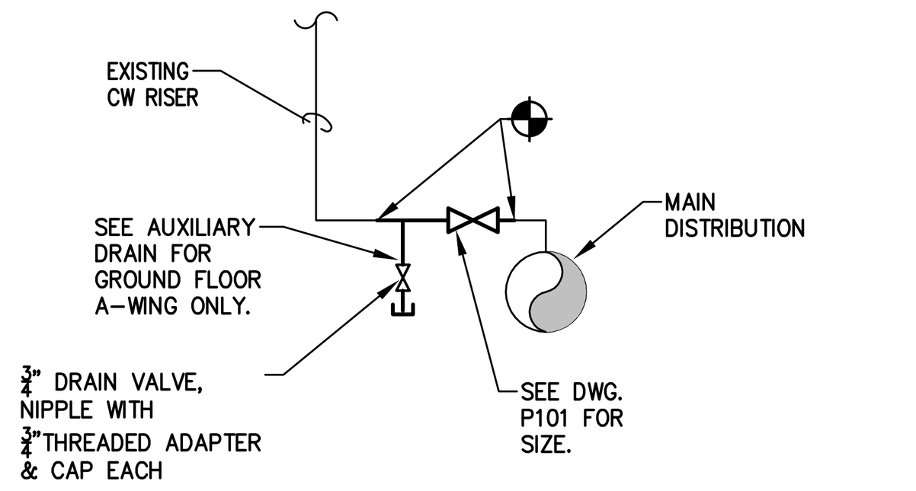
Project No.: 558-12-101

Drawing ID No.: 12-E-02

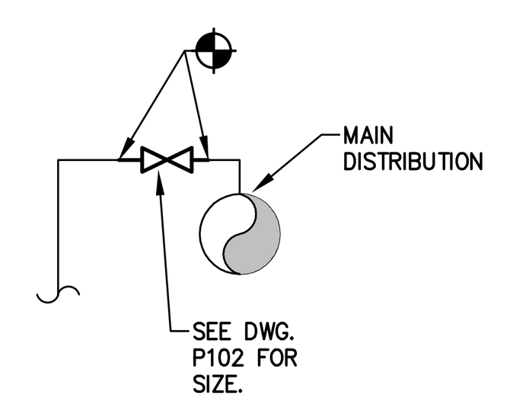
DRAWING NO.
H102

Sheet of

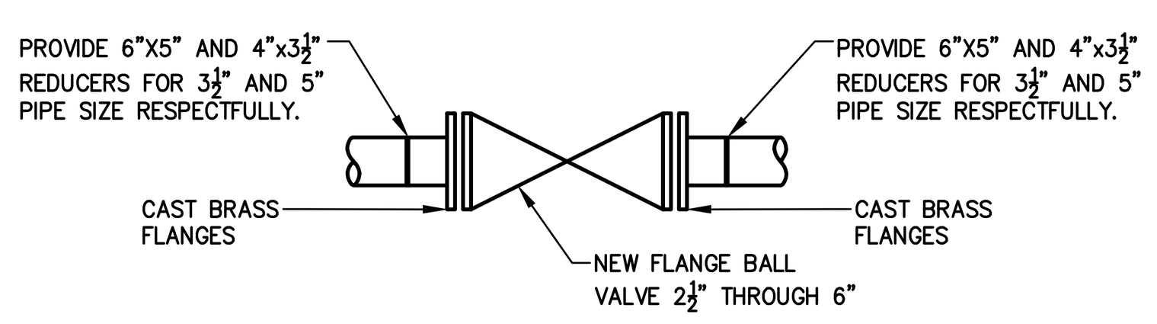
Department of VETERANS AFFAIRS



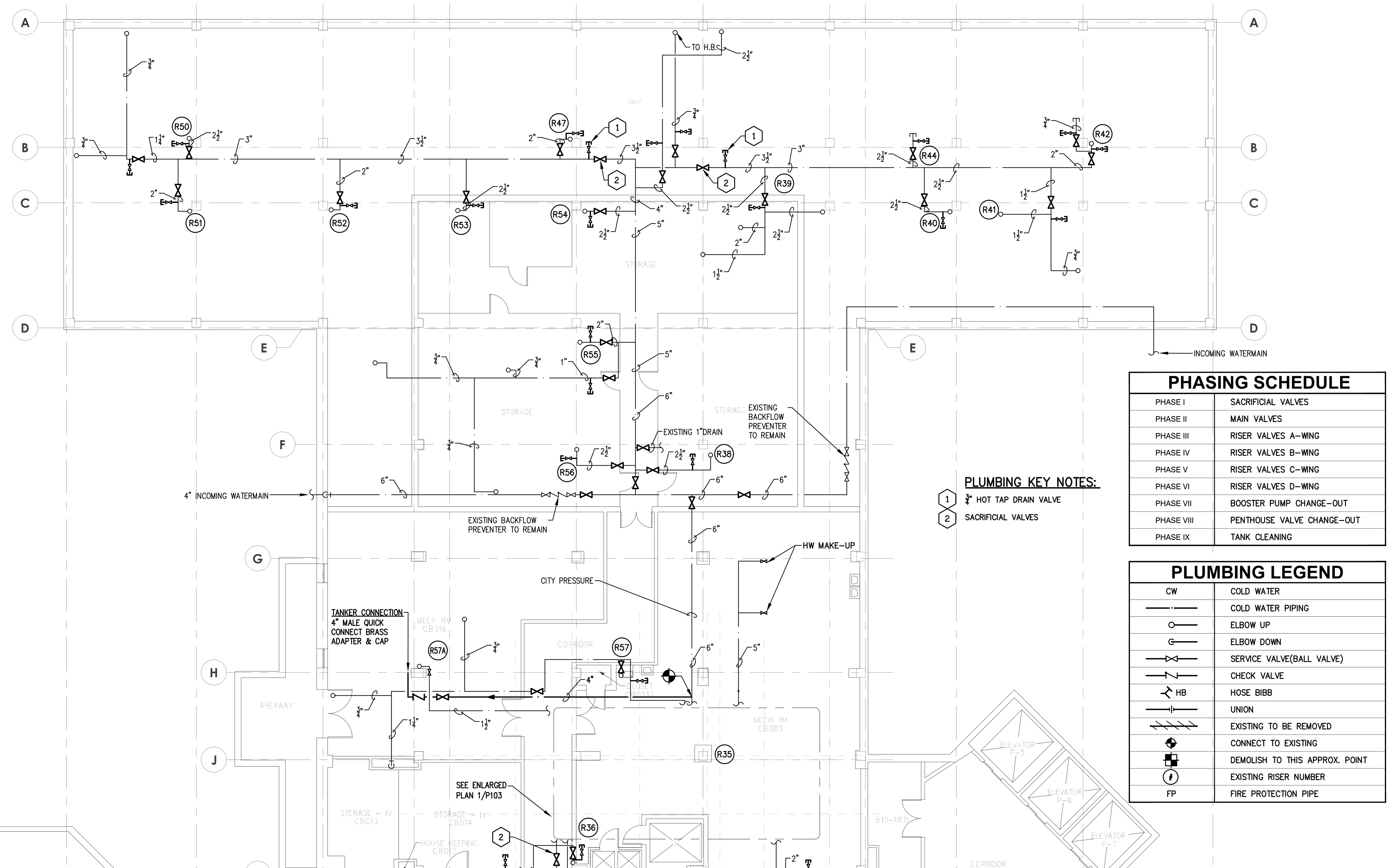
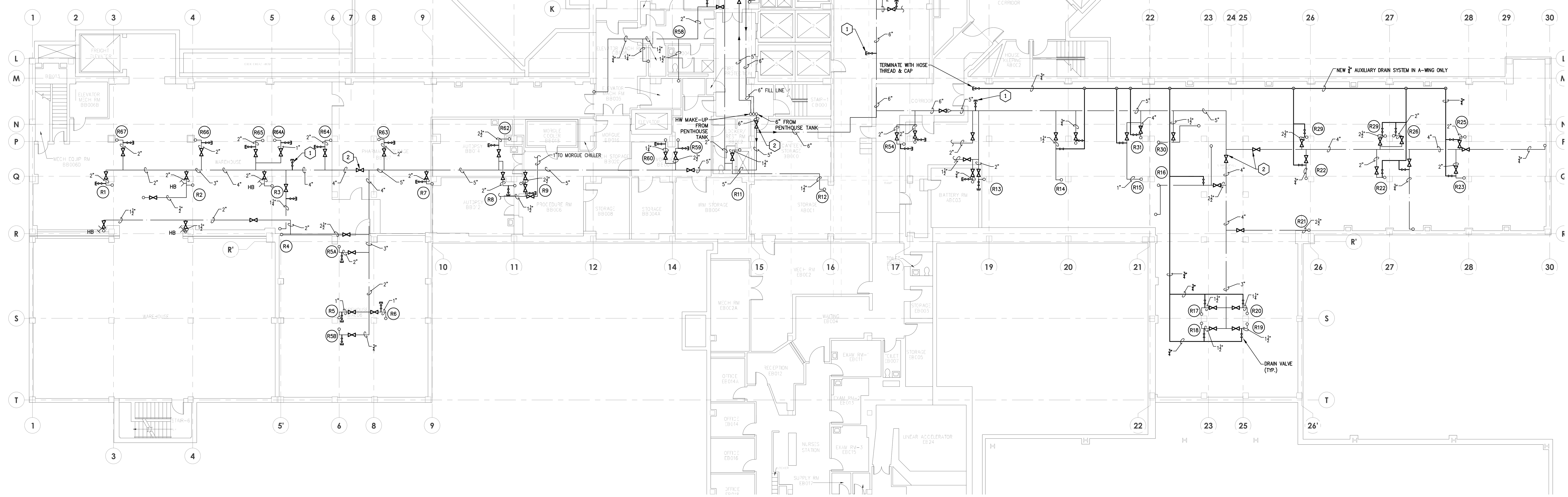
2 / P101 **Typical Riser Valve Replacement**
SCALE: NONE — BASEMENT LEVEL



3 / P101 **Typical Riser Valve Replacement**
SCALE: NONE — 10TH FLOOR CEILING



4 / P101 **Large Valve Detail**
SCALE: NONE

PLUMBING KEY NOTES:

1. 3/4" HOT TAP DRAIN VALVE
2. SACRIFICIAL VALVES

1 / P101 **Water Valve Replacement Plan**
SCALE: 3/32" = 1'-0" — BASEMENT

NOTE:

ALL PIPING IS EXISTING UNLESS NOTED OTHERWISE. ALL EXISTING COLD WATER MAIN VALVE AND RISER VALVES TO BE REPLACED. ALL NEW VALVES TO BE BALL VALVES.

PHASING SCHEDULE

PHASE I	SACRIFICIAL VALVES
PHASE II	MAIN VALVES
PHASE III	RISER VALVES A-WING
PHASE IV	RISER VALVES B-WING
PHASE V	RISER VALVES C-WING
PHASE VI	RISER VALVES D-WING
PHASE VII	BOOSTER PUMP CHANGE-OUT
PHASE VIII	PENTHOUSE VALVE CHANGE-OUT
PHASE IX	TANK CLEANING

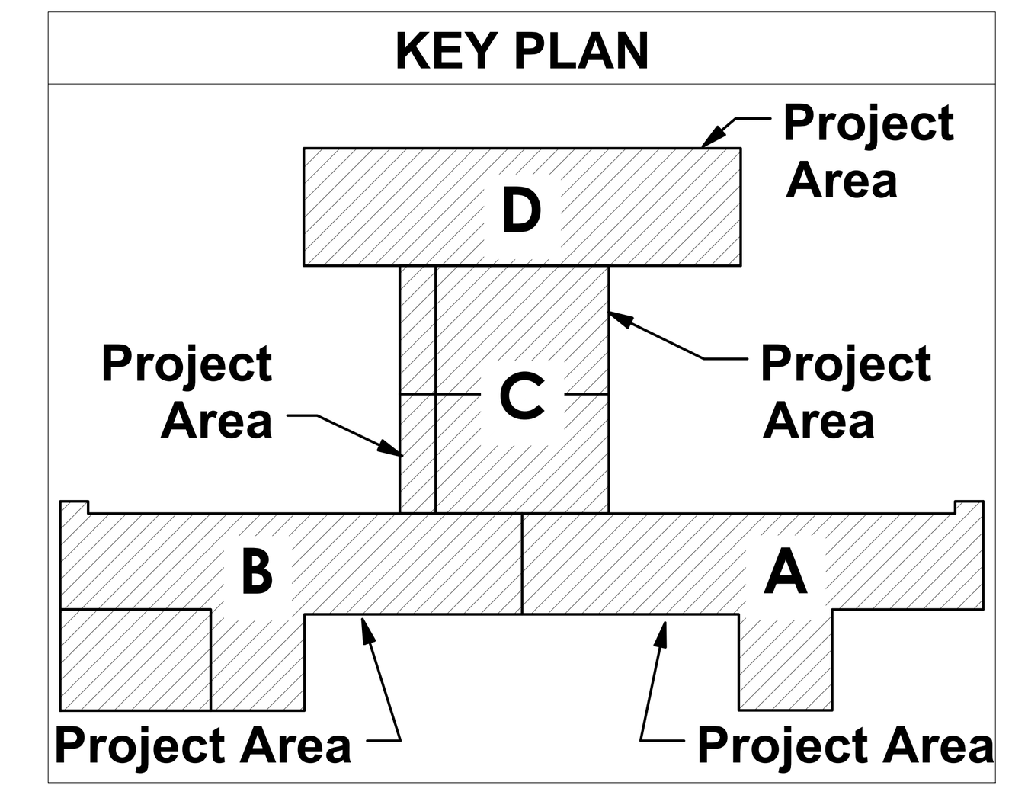
PLUMBING LEGEND

CW	COLD WATER
(symbol)	COLD WATER PIPING
(symbol)	ELBOW UP
(symbol)	ELBOW DOWN
(symbol)	SERVICE VALVE(BALL VALVE)
(symbol)	CHECK VALVE
HB	HOSE BIBB
(symbol)	UNION
(symbol)	EXISTING TO BE REMOVED
(symbol)	CONNECT TO EXISTING
(symbol)	DEMOLISH TO THIS APPROX. POINT
#	EXISTING RISER NUMBER
FP	FIRE PROTECTION PIPE

GENERAL PLUMBING NOTES:

1. ALL SHUT DOWN WORK SHALL BE PERFORMED DURING OFF HOURS UNLESS DIRECTED BY VAMC. WORK SHALL BE FROM 5:00 PM TO 7:00 AM MONDAY THROUGH FRIDAY AND AS SCHEDULED WITH VAMC FOR SATURDAY, SUNDAY AND HOLIDAYS. VAMC REQUIRES THAT SERVICE WATER SHALL NOT BE INTERRUPTED LONGER THAN 6 HOURS MAXIMUM.
2. CONTRACTOR IS RESPONSIBLE FOR PROVIDING EXTRA MATERIALS (PIPE, VALVE, FITTING, FLANGES, GASKETS, ETC.) IN APPROPRIATE SIZE TO BE INSTALLED DURING A SHUT-DOWN. BACK UP SOLDERING EQUIPMENT, FREEZE SEAL EQUIPMENT AND OTHER NECESSARY EQUIPMENT SHALL BE PROVIDED TO ASSURE WATER SERVICE CAN BE BACK IN SERVICE WITHIN 6 HOUR MAXIMUM SERVICE OUTAGE. CONTRACTOR SHALL PROVIDE MEANS FOR DRAINING LOW POINT IN PIPING SYSTEM.
3. A MINIMUM OF (3) RISER VALVE REPLACEMENT SHALL BE MADE PER SCHEDULED SHUT-DOWN.
4. CONTRACTOR IS RESPONSIBLE FOR FIELD VERIFYING ALL VALVE SIZES, QUANTITIES AND FIELD CONDITIONS PRIOR TO SHUT-DOWNS.
5. CONTRACTOR IS RESPONSIBLE FOR FIELD VERIFYING ALL EXISTING PIPE LOCATIONS, SIZES, AND VALVE LOCATIONS. THIS IS TO INCLUDE COLD WATER PIPING ONLY.
6. INSTALL SACRIFICIAL ISOLATION BALL VALVES AS SHOWN. COORDINATE LOCATION WITH OWNER.
7. PROVIDE HOT TAP 3/4" DRAIN VALVES WHERE SHOWN ON DRAWING FOR SYSTEM DRAIN DOWN.
8. NO EXISTING PIPING SHALL BE LEFT OPEN AFTER PARTIAL REMOVAL. PIPE SHALL BE CAPPED OR EITHER MADE READY FOR CONNECTION TO NEW WORK.
9. ALL EXISTING FLOOR OPENINGS WHERE PIPE IS REMOVED SHALL BE PATCHED TO MATCH EXISTING FLOOR. MAINTAIN BLDG. FIRE RATING BY THE PLUMBING CONTRACTOR.
10. THE CONTRACTOR SHALL VERIFY THAT ALL FLOOR PENETRATIONS ARE PROPERLY FIRE STOPPED AFTER THE DEMO.
11. REMOVE EXISTING ABANDONED PIPE HANGERS, RODS, AND SUPPORTS.
12. PIPE LINE FREEZING FOR VALVE REPLACEMENT IS ACCEPTABLE WHERE SPACE PERMITS.
13. CONTRACTOR SHALL INCLUDE PIPE INSULATION REPLACEMENT ON DOMESTIC COLD WATER PIPING 2' EACH SIDE OF VALVE +/- 10% FOR PIPE SIZES 3 1/2" AND BELOW AND 4' EACH SIDE OF VALVES +/- 10% FOR PIPE SIZES 4" AND LARGER. CONTRACTOR IS RESPONSIBLE FOR IDENTIFYING AND REPORTING TO COTR ANY OTHER DAMAGED COLD WATER INSULATION INCLUDING SIZE AND QUANTITY PRIOR TO START OF WORK. ALL NEW PIPING INSTALLED SHALL BE INSULATED.
14. PLUMBING CONTRACTOR IS RESPONSIBLE FOR REWORK OF EXISTING CIRCUIT FOR NEW BOOSTER PUMP PACKAGE. REWORK SHALL INCLUDE ALL CONDUIT AND WIRING REQUIRED. ALL WORK SHALL BE PERFORMED BY A LICENSED ELECTRICAL CONTRACTOR.
15. BOOSTER PUMP SYSTEM SHALL BE COMPACT VERTICAL (3) PUMP CONFIGURATION WITH 6" INLET AND OUTLET HEADERS. CONTRACTOR IS RESPONSIBLE FOR VERIFICATION OF FIELD CONDITIONS AND CLEARANCES FOR PUMP SYSTEM INSTALLATION.
16. EXISTING BASEMENT BOOSTER PUMP HAS TO REMAIN IN SERVICE UNTIL NEW PUMP STATION IS CONSTRUCTED AND IS READY FOR TIE-IN. SHUT DOWN AND TIE-IN TO BE COORDINATED WITH COTR.
17. EACH PROJECT PHASE SHALL BE COMPLETED BEFORE MOVING TO THE NEXT PHASE UNLESS DIRECTED BY VA COTR. WORK IN MULTIPLE PHASES SIMULTANEOUSLY WILL NOT BE ALLOWED UNLESS DIRECTED BY VA COTR.

KEY PLAN



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CONSTRUCTION DOCUMENTS

REVISIONS

REV.	DESCRIPTION	DATE

RECOMMEND APPROVAL

Requestor:	Date:
Chief of Service:	Date:
Infection Control:	Date:
Requestor:	Date:
Chief of Staff:	Date:
Assoc. Med. Ctr. Dir.:	Date:

Drawing Title: **Water Piping Plan**

Approved Chief, Engineering Svc. — Date:

APPROVED BY: MEDICAL CENTER DIRECTOR — Date:

Project Title: **Replace Cold Water Valves**

Building No.	Designed by:	Drawn by:	Checked by:
1	WBF	BLN	CTC

Location: **Durham VAMC, 508 Fulton St., Durham, NC**

Date: 14 February 2012
Project No.: 558-12-101
Project ID No.: 12-E-02

DRAWING NO. **P101**
Sheet 7 of 9

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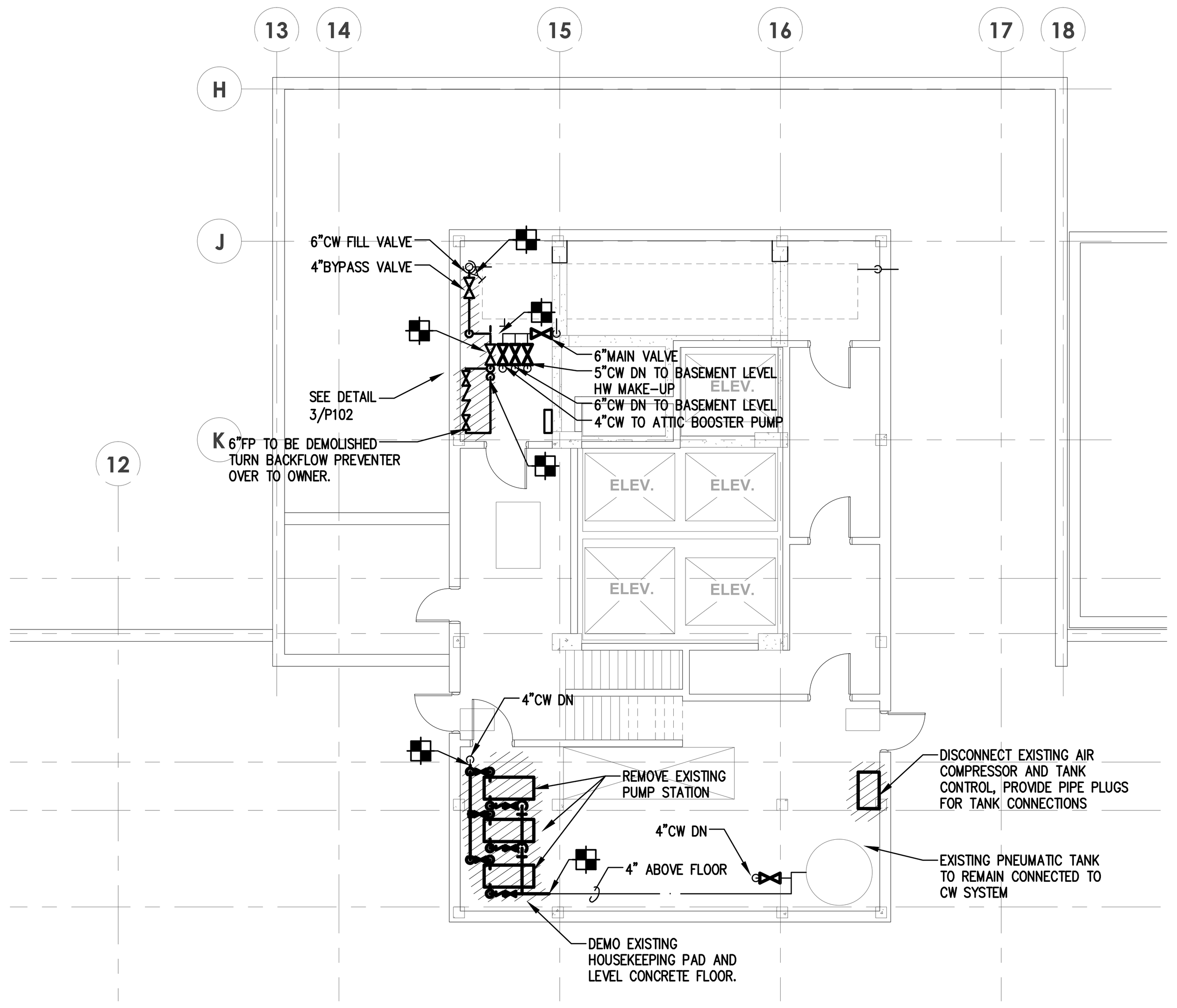
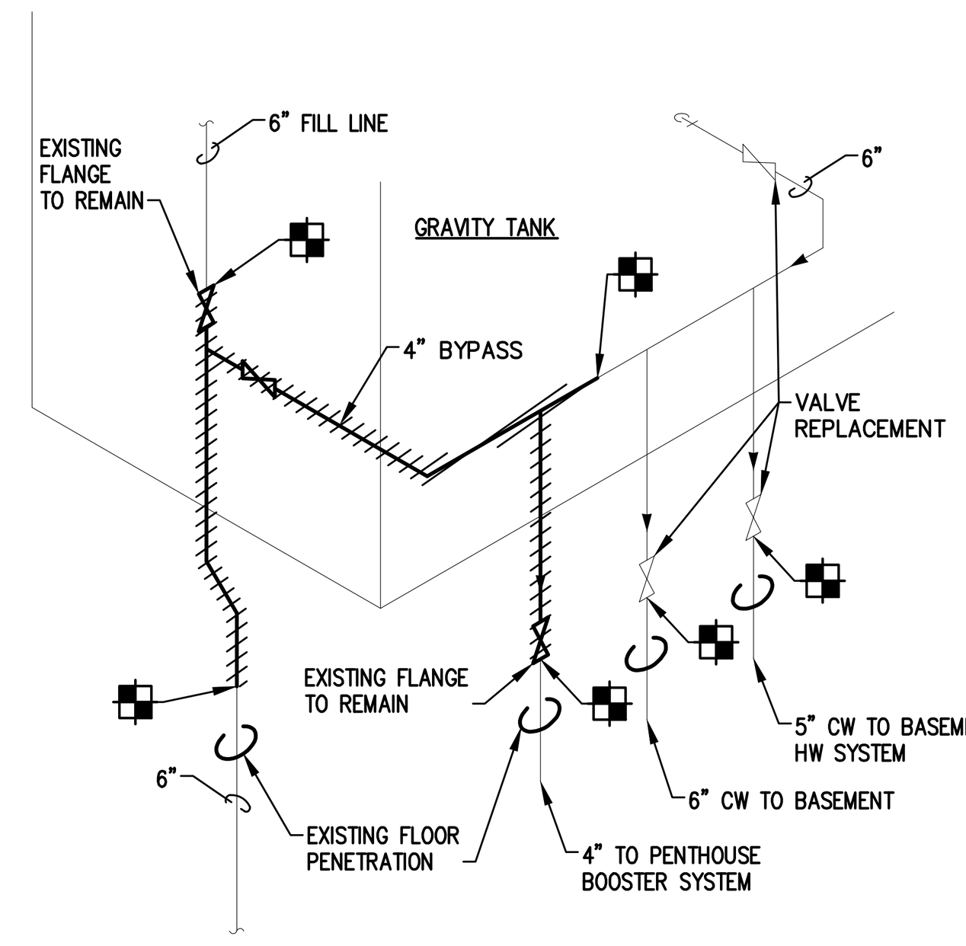
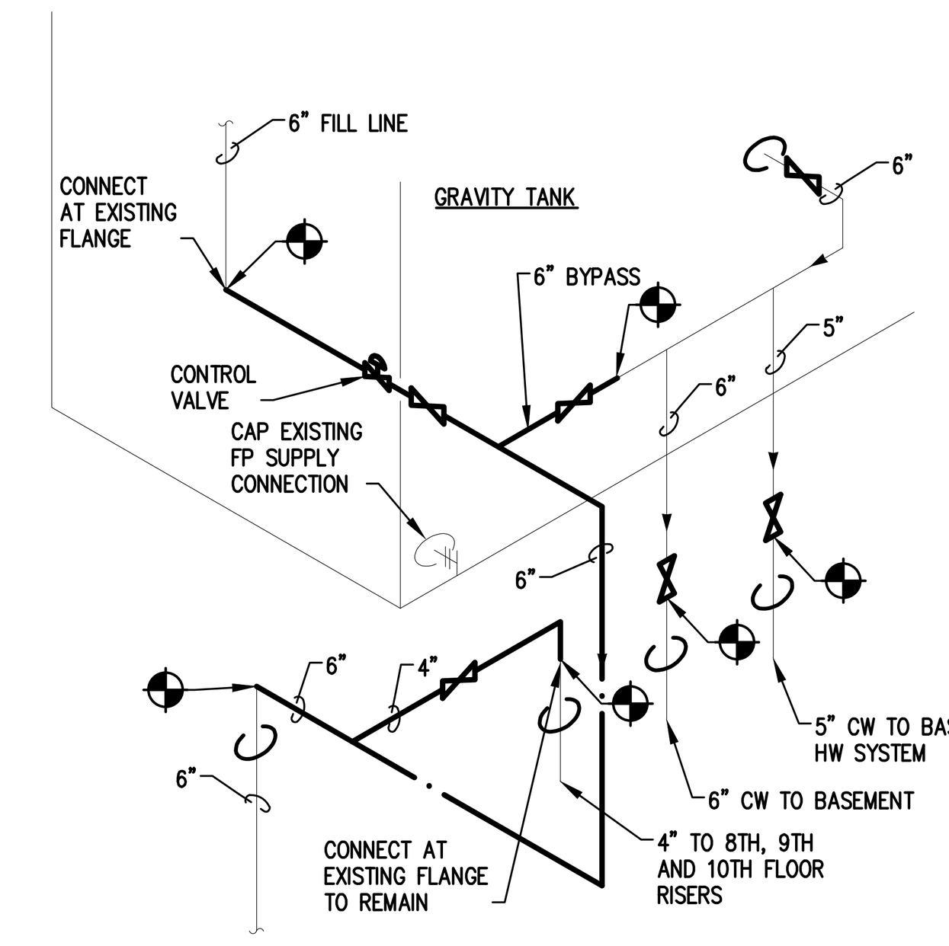


2 / **P102** Water Piping Demolition Plan
SCALE: 3/32" = 1'-0" PENTHOUSE

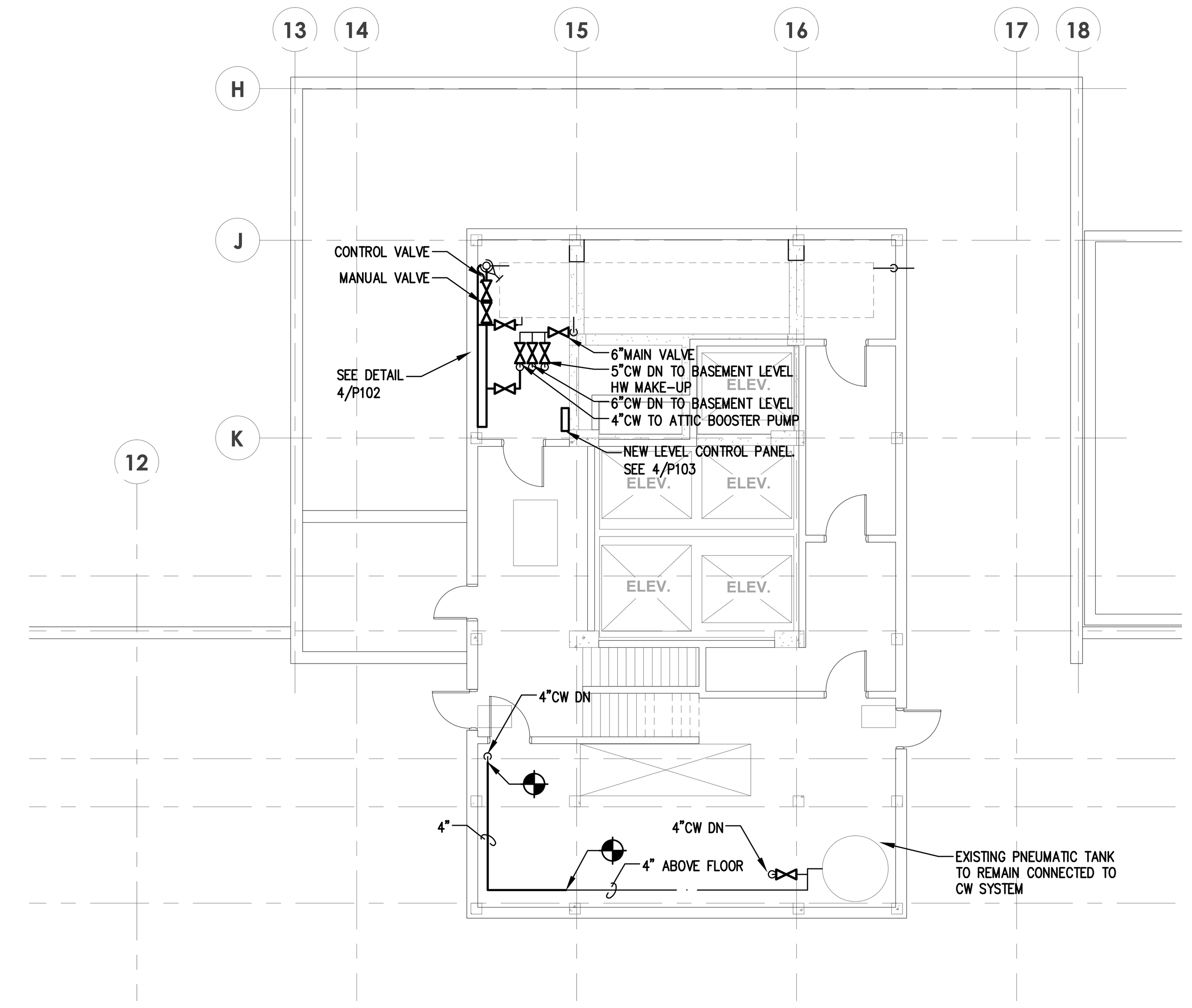


3 / **P102** Penthouse Piping Gravity Tank Demolition
SCALE: NONE

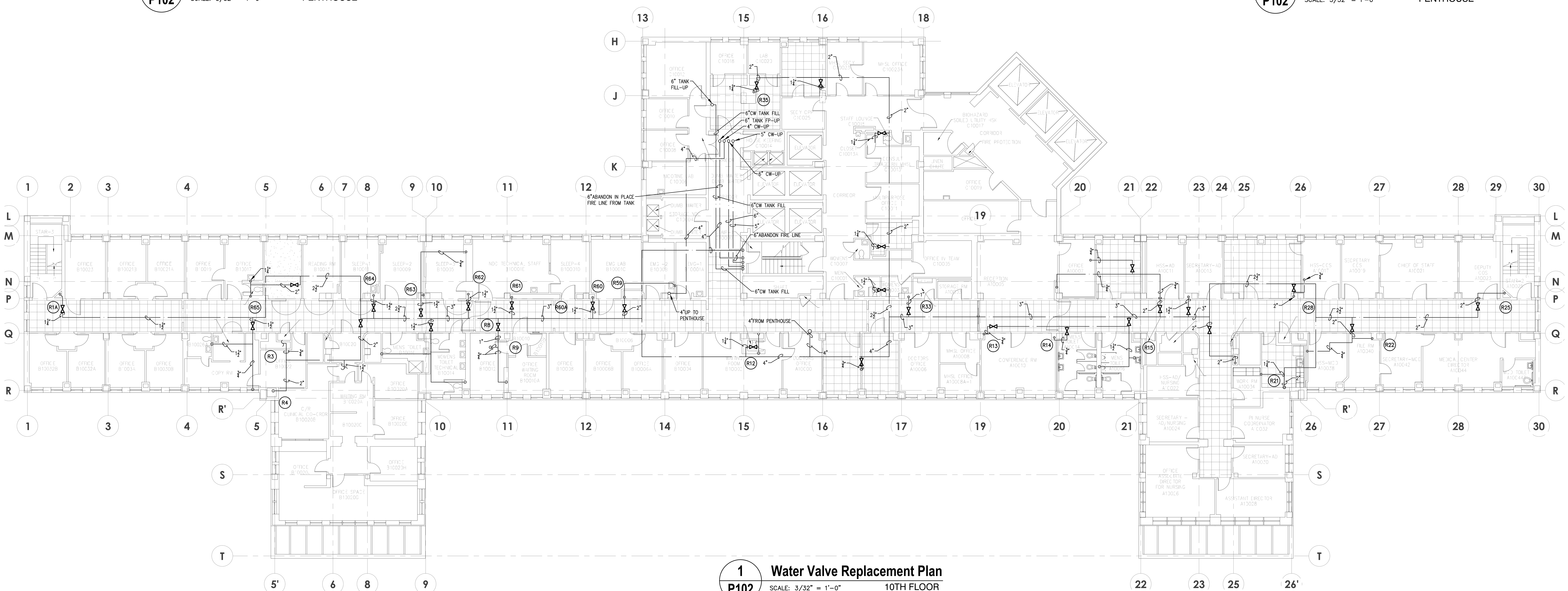


4 / **P102** Penthouse Piping Gravity Tank Renovation
SCALE: NONE

NOTE:
REPLACE ALL EXISTING VALVES AND FLANGES.



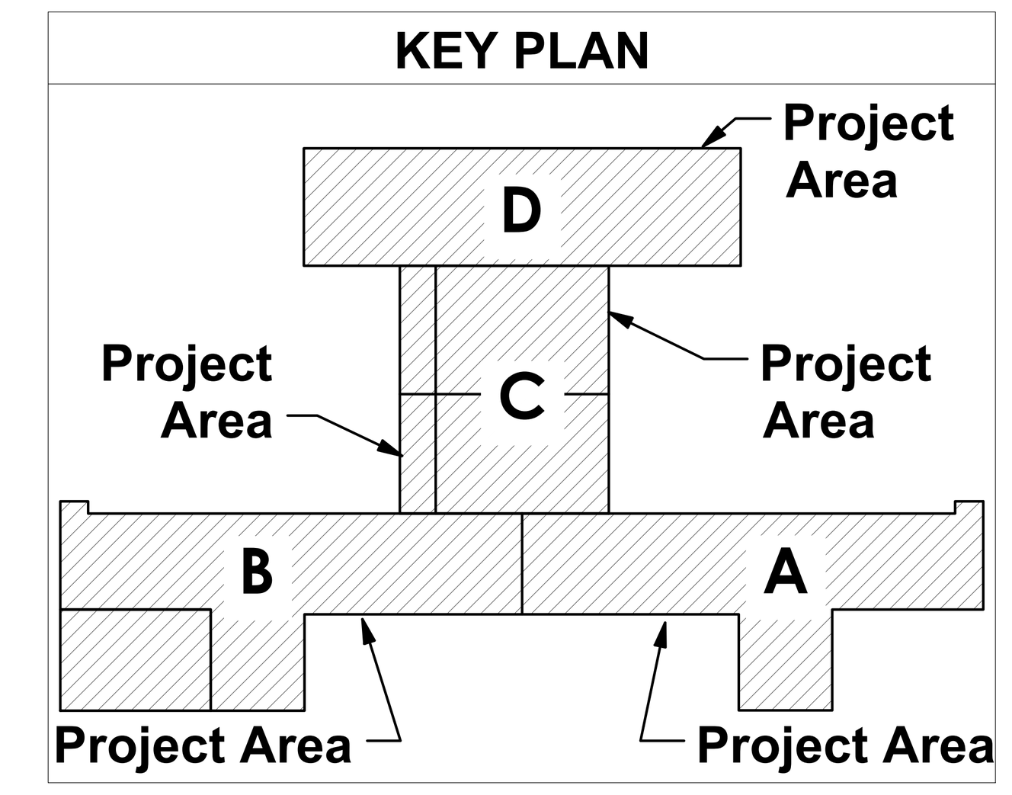
5 / **P102** Water Piping Renovation Plan
SCALE: 3/32" = 1'-0" PENTHOUSE



1 / **P102** Water Valve Replacement Plan
SCALE: 3/32" = 1'-0" 10TH FLOOR

NOTE:
ALL PIPING IS EXISTING UNLESS NOTED OTHERWISE. ALL EXISTING COLD WATER MAIN VALVE AND RISER VALVES TO BE REPLACED.

KEY PLAN



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Assoc. Med. Ctr. Dir.:	Date:

Drawing Title:
Water Piping Plan 10th Floor

Approved Chief, Engineering Svc. — Date:

APPROVED BY: — Date:
MEDICAL CENTER DIRECTOR

Project Title:
Replace Cold Water Valves

Building No.	Designed by:	Drawn by:	Checked by:
1	WBF	BLN	CTC

Location
Durham VAMC
508 Fulton St., Durham, NC

Date: 14 February 2012
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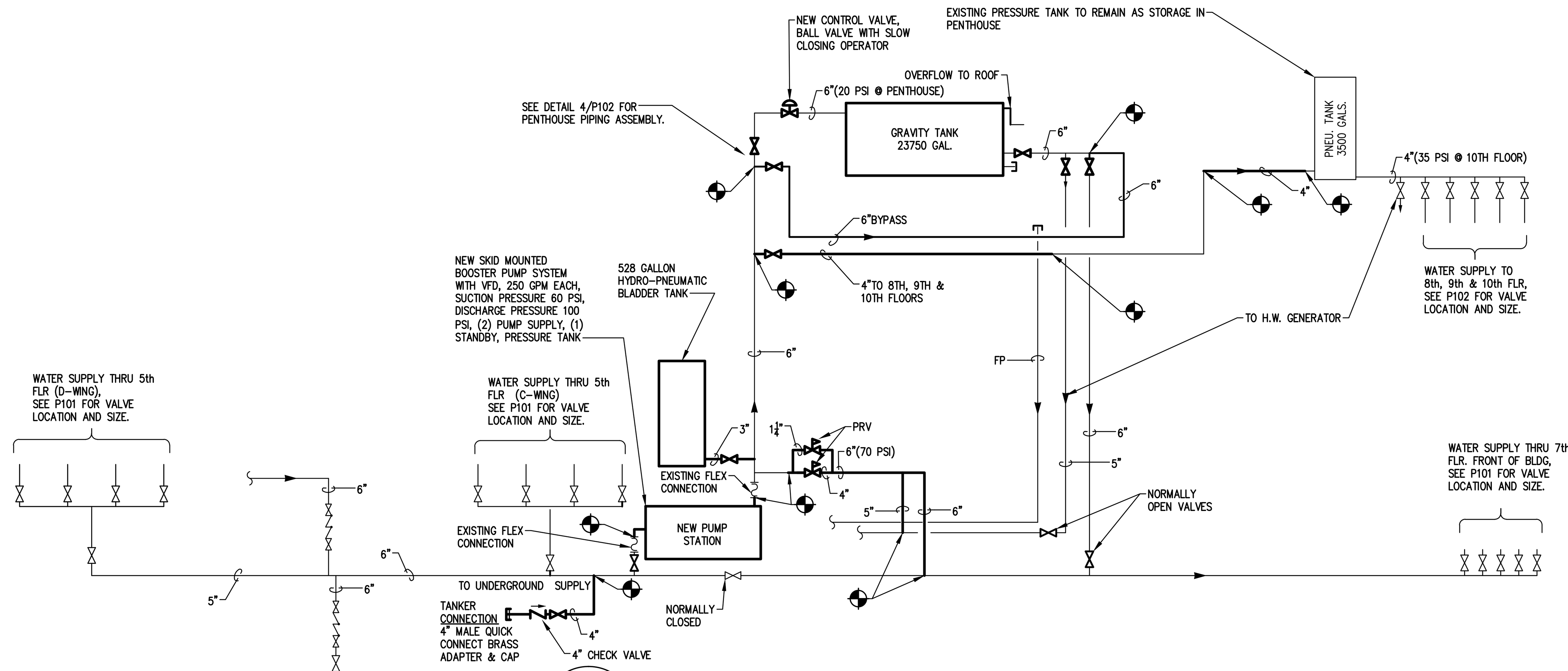
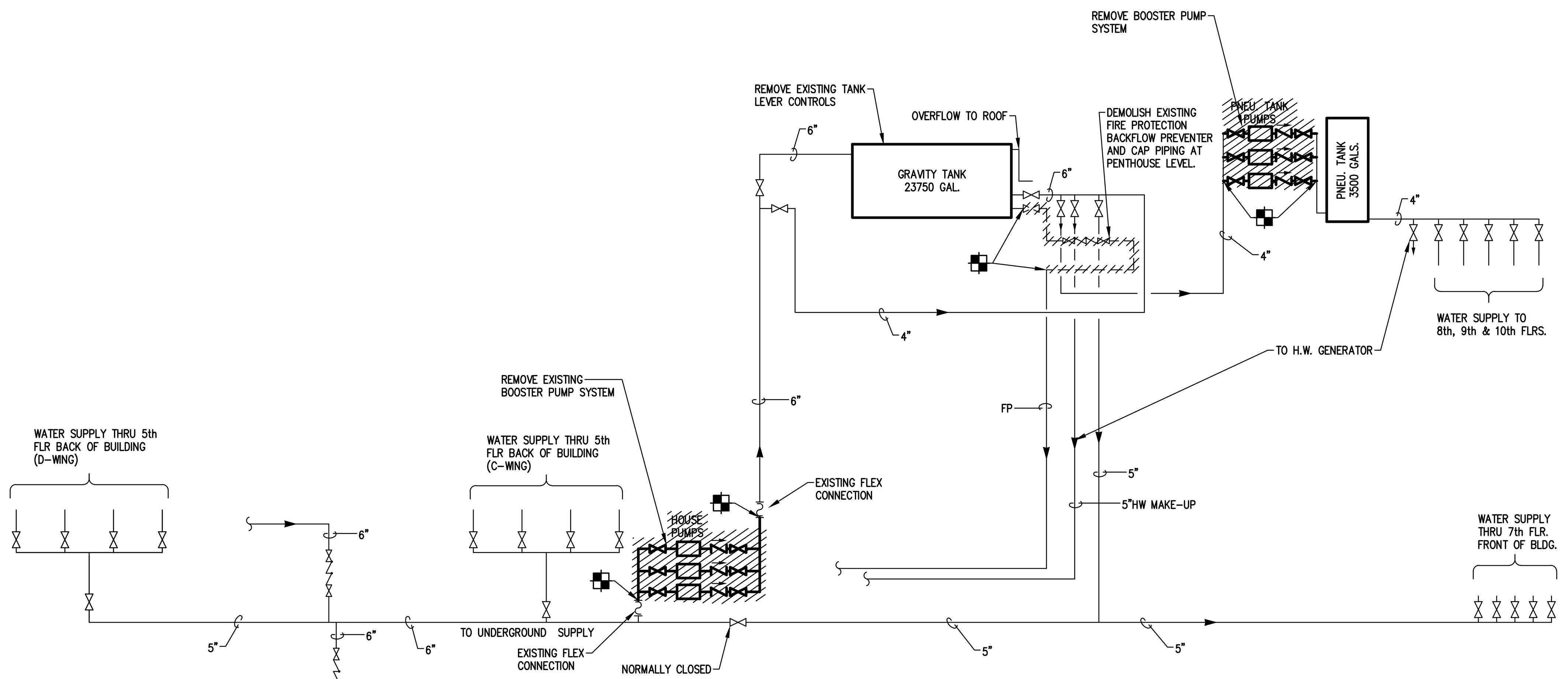
DRAWING NO.
P102
Sheet 8 of 9



NEW CONTROL VALVE, BALL VALVE WITH SLOW CLOSING OPERATOR
EXISTING PRESSURE TANK TO REMAIN AS STORAGE IN PENTHOUSE
OVERFLOW TO ROOF
SEE DETAIL 4/P102 FOR PENTHOUSE PIPING ASSEMBLY.
6"(20 PSI @ PENTHOUSE)
GRAVITY TANK 23750 GAL.
PNEU. TANK 3500 GALS.
4"(35 PSI @ 10TH FLOOR)
6"BYPASS
4"TO 8TH, 9TH & 10TH FLOORS
WATER SUPPLY TO 8th, 9th & 10th FLR, SEE P102 FOR VALVE LOCATION AND SIZE.
TO H.W. GENERATOR
NEW SKID MOUNTED BOOSTER PUMP SYSTEM WITH VFD, 250 GPM EACH, SUCTION PRESSURE 60 PSI, DISCHARGE PRESSURE 100 PSI, (2) PUMP SUPPLY, (1) STANDBY, PRESSURE TANK
528 GALLON HYDRO-PNEUMATIC BLADDER TANK
WATER SUPPLY THRU 5th FLR (D-WING), SEE P101 FOR VALVE LOCATION AND SIZE.
WATER SUPPLY THRU 5th FLR (C-WING) SEE P101 FOR VALVE LOCATION AND SIZE.
PRV
6"(70 PSI)
EXISTING FLEX CONNECTION
NEW PUMP STATION
NORMALLY OPEN VALVES
WATER SUPPLY THRU 7th FLR. FRONT OF BLDG, SEE P101 FOR VALVE LOCATION AND SIZE.
TO UNDERGROUND SUPPLY
TANKER CONNECTION 4" MALE QUICK CONNECT BRASS ADAPTER & CAP
4" CHECK VALVE
NORMALLY CLOSED

3 P103 Renovation Water Valve Replacement - Diagrammatic Plan

SCALE: NONE



REMOVE BOOSTER PUMP SYSTEM
REMOVE EXISTING TANK LEVER CONTROLS
OVERFLOW TO ROOF
GRAVITY TANK 23750 GAL.
DEMOLISH EXISTING FIRE PROTECTION BACKFLOW PREVENTER AND CAP PIPING AT PENTHOUSE LEVEL.
PNEU. TANK 3500 GALS.
WATER SUPPLY TO 8th, 9th & 10th FLRS.
TO H.W. GENERATOR
REMOVE EXISTING BOOSTER PUMP SYSTEM
WATER SUPPLY THRU 5th FLR BACK OF BUILDING (D-WING)
WATER SUPPLY THRU 5th FLR BACK OF BUILDING (C-WING)
EXISTING FLEX CONNECTION
5"HW MAKE-UP
WATER SUPPLY THRU 7th FLR. FRONT OF BLDG.
TO UNDERGROUND SUPPLY
EXISTING FLEX CONNECTION
NORMALLY CLOSED

2 P103 Demolition Water Valve Replacement - Diagrammatic Plan

SCALE: NONE

ELECTRONIC WATER LEVEL FILL CONTROLS

The water level controller system shall be supplied as a unit, including senor with wire, controller and a slow closing ball valve. The system shall be solid state, with noncorrosive components, NEMA 4 enclosure with all components suitable for use outdoors in a mechanical room environment. The system will provide automation monitoring, fine control, ease of operation, ease of service and accessibility. The environment water level shall be controlled automatically within a 6" range identified as "the operating range". It shall also monitor a High Water Level set-point and act upon it and a Low Water Level set point and act upon it. The water level control system shall be comprised of a sensor and sensor housing with wire attached and installed at water level, control panel mounted at a convenient location and a control valve in-line with the tank fill water. A second and third relay system shall operate a High Water Level Alarm and a Low Water Level Alarm. The sensor housing shall be installed according to the manufacturer's directions. The sensor shall be mounted at water level in a safe and convenient location. The sensor assembly shall be of solid state construction and contain five sensing probes made of stainless steel. The Sensor shall be connected to the control panel with a maximum of 200 ft of wire provided as part of the sensor.

The control panel shall be solid state construction. All Power relays shall be rated at 30Amps 250VAC. Each output function shall have a corresponding set of normally open dry contacts to be connected to the building automation system. Control Panel shall feature displays indicating Power, Filling, High Water Level, Low Water Level indicators, a fault indicator and a test system to test the electronics portion of the controls without removing or disconnecting the probes. The system shall have a time delay between sensing and filling before initializing the fill valve. The system shall have a time delay between sensing and the High Water Level Alarm before initializing the relay to activate the High Water Level Alarm. The system shall have a time delay between sensing and the Low Water Level Alarm before initializing the relay to activate the Low Water Level Alarm. The system shall have a switch to activate the test process and it will automatically cycle through the Filling process, High Water Level Alarm and the Low water Level Alarm. The system shall have a light to indicate that it is in the test mode. The "Fault" indicator will change the power LED (green) to red when the "fill" command has been "ON" for greater than six continuous hours. After one minute it will turn back to green and the system will function normally. The system shall be hard wired into a panel for permanent installation. Ball valve shall comply with specifications and be equipped with an industrial grade slow closing operator.

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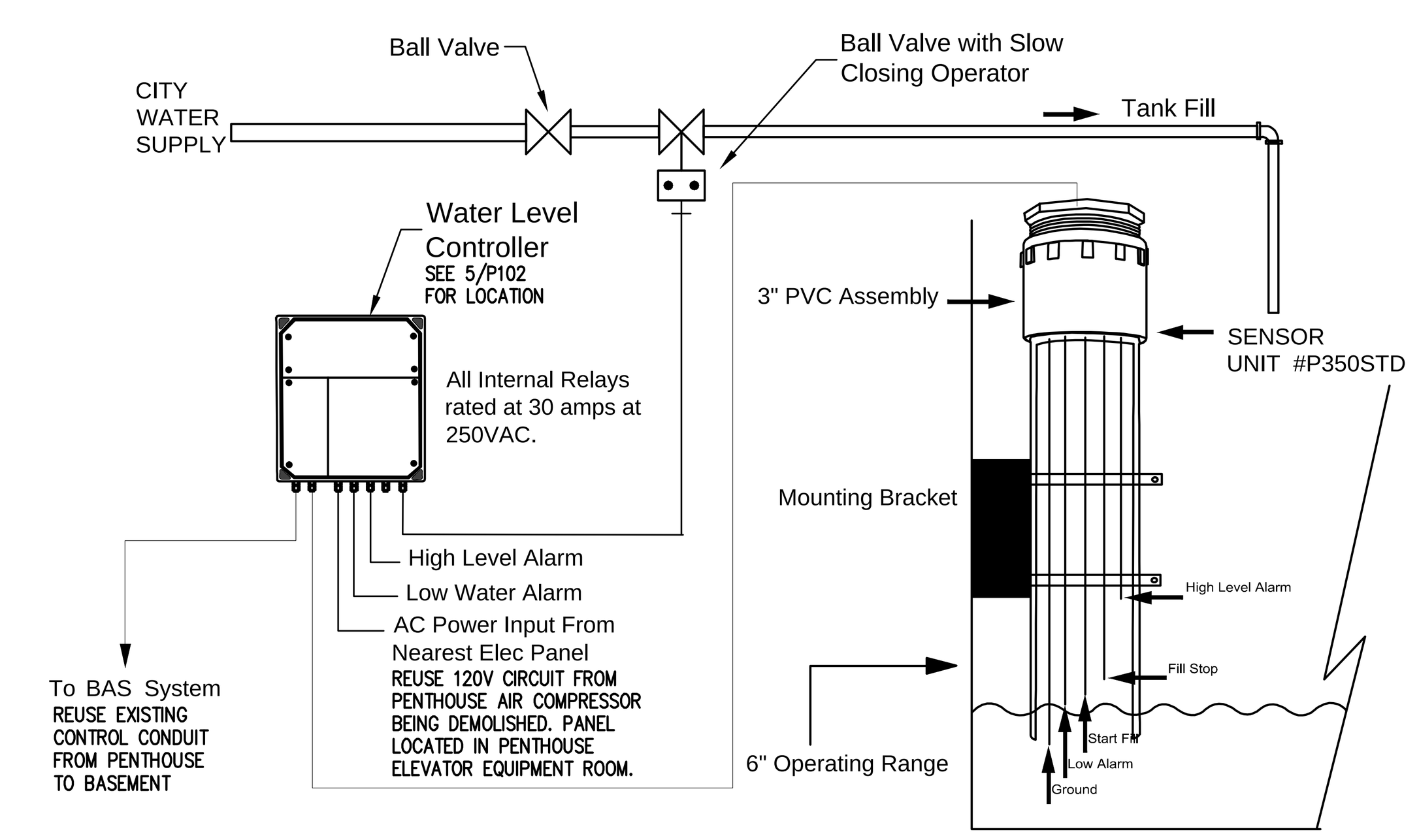
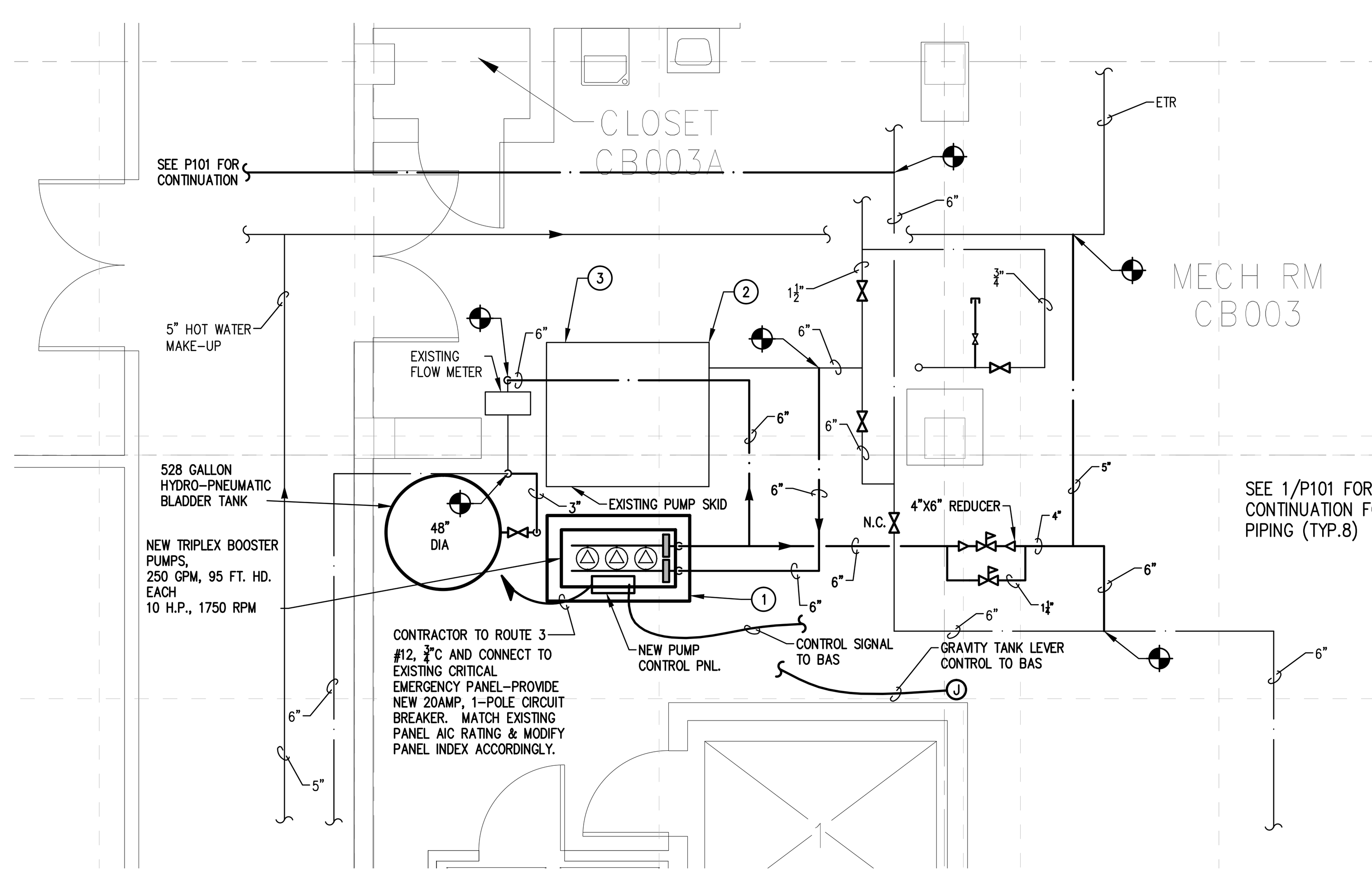


Ball Valve
Ball Valve with Slow Closing Operator
CITY WATER SUPPLY
Tank Fill
Water Level Controller
SEE 5/P102 FOR LOCATION
3" PVC Assembly
SENSOR UNIT #P350STD
All Internal Relays rated at 30 amps at 250VAC.
Mounting Bracket
High Level Alarm
Low Water Alarm
AC Power Input From Nearest Elec Panel
REUSE 120V CIRCUIT FROM PENTHOUSE AIR COMPRESSOR BEING DEMOLISHED. PANEL LOCATED IN PENTHOUSE ELEVATOR EQUIPMENT ROOM.
To BAS System
REUSE EXISTING CONTROL CONDUIT FROM PENTHOUSE TO BASEMENT
6" Operating Range

4 P103 Tank Level Control Detail

SCALE: NONE



CLOSET CB003A
SEE P101 FOR CONTINUATION
ETR
MECH RM CB003
5" HOT WATER MAKE-UP
EXISTING FLOW METER
528 GALLON HYDRO-PNEUMATIC BLADDER TANK
48" DIA
EXISTING PUMP SKID
NEW TRIPLEX BOOSTER PUMPS, 250 GPM, 95 FT. HD. EACH 10 H.P., 1750 RPM
SEE 1/P101 FOR CONTINUATION FOR ALL PIPING (TYP.8)
4"x6" REDUCER
N.C.
CONTRACTOR TO ROUTE 3 #12, 3/4"C AND CONNECT TO EXISTING CRITICAL EMERGENCY PANEL-PROVIDE NEW 20AMP, 1-POLE CIRCUIT BREAKER. MATCH EXISTING PANEL AIC RATING & MODIFY PANEL INDEX ACCORDINGLY.
NEW PUMP CONTROL PNL.
CONTROL SIGNAL TO BAS
GRAVITY TANK LEVER CONTROL TO BAS

1 P103 Water Valve Enlarged Plan

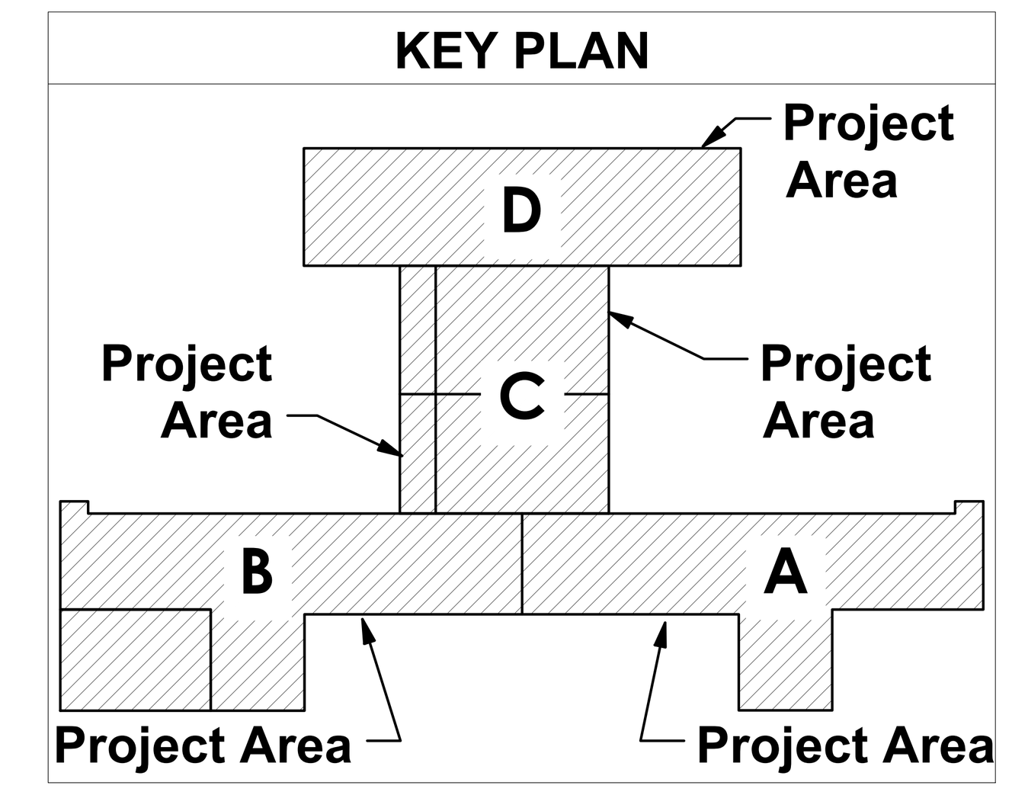
SCALE: 1/4" = 1'-0"

BASEMENT

NOTE:

1. NEW CONCRETE HOUSEKEEPING PAD IS BY PLUMBING CONTRACTOR. PAD SHALL BE 6" THICK WITH 1" CHAMFERED EDGES, PAD SHALL BE 6" LARGER THAN EQUIPMENT SKID ON ALL SIDES, INSTALL 3000 PSI CONCRETE PAD WITH 6"x6" – W1.4xW1.4' – WELDED WIRE FABRIC REINFORCING.
2. PLUMBING CONTRACTOR IS RESPONSIBLE FOR REMOVAL OF EXISTING PUMP STATION AND EXISTING HOUSEKEEPING PAD. RE-LEVEL CONCRETE FLOOR AFTER DEMOLITION.
3. PROVIDE VIBRATION ISOLATION PADS UNDER PUMP SKID BASE AND HYDRO-PNEUMATIC BASE.

KEY PLAN



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Assoc. Med. Ctr. Dir.:	Date:

Drawing Title: **Water System Diagram**

Approved Chief, Engineering Svc.	Date:
APPROVED BY: MEDICAL CENTER DIRECTOR	Date:

Project Title: **Replace Cold Water Valves**

Building No.	Designed by:	Drawn by:	Checked by:
1	WBF	BLN	CTC

Location: **Durham VAMC, 508 Fulton St., Durham, NC**

Date: 14 February 2012

Project No.: 558-12-101

Project ID No.: 12-E-02

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